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Text Part Number: 78EE117C99-164201301

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1.267.1 Available under license
1.268 numactl 2.0.9 :2.el6
1.268.1 Available under license
1.269 oauth-sign 0.3.0
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- 1.270 openldap 2.4.40 :16.el6**
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 - 1.274.1 Notifications
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- 1.320 querystring 0.6.6**
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1.382.1 Notifications
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1.383 xz 4.999.9 :0.5.beta.20091007git.el6
1.383.1 Available under license
1.384 ycssmin 1.0.1

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Version 2.1, February 1999

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1.5 Async.js 0.2.9

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1.6 atmel-firmware 1.3 :7.el6

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```
/** *- linux-c *- *****
```

Firmware loader for Atmel at76c502 at76c504 and at76c506 wireless cards.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.12 avahi 0.6.25 :17.el6

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```
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```

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```

```
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```

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From spcedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
```

```
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```

From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTTP (8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book.

(Too late to actually discuss the thing, at least for this edition).

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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1.19 binutils 2.20.51.0.2 :5.47.el6_9.1

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]

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@appendixsubsec Preamble

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in new free programs; and that you are informed that you can do these
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you if you distribute copies of the library or if you modify it.

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you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
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with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
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@end ifinfo
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A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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For an executable, the required form of the ``work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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Version 2.1, February 1999

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That's all there is to it!
(This file is under construction.) *- text -*

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

1.20 boom 0.4.2

1.20.1 Available under license :

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1.21 boost 1.53.0

1.21.1 Available under license :

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From gsf@research.att.com Wed Mar 1 20:30:54 2006

Return-Path: <gsf@research.att.com>

X-Original-To: mps@bridge.intra

Delivered-To: mps@bridge.intra

Received: from localhost (localhost [127.0.0.1])

by localhost (Postfix) with ESMTP id B8C814E4F

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)

Received: from mail.bridge.intra ([127.0.0.1])

by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)

with LMTP id 05987-03 for <mps@bridge.intra>;

Wed, 1 Mar 2006 20:30:42 +0100 (CET)

Received: from pop.gmx.net (localhost [127.0.0.1])

by mail.bridge.intra (Postfix) with ESMTP id C8C73794D

for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)

X-Flags: 0000

Delivered-To: GMX delivery to ps.m@gmx.net

Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000

Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]

by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100

Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])

by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB

for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Received: (from gsf@localhost)

by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112

for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)

From: Glenn Fowler <gsf@research.att.com>

Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.23 bzip2 1.0.5 :7.el6_0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.24 bzip2-libs 1.0.5 :7.el6_0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.25 ca-certificates 2017.2.14 :65.0.1.el6_9

1.25.1 Available under license :

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1.26 cairo 1.8.8 :3.1.el6

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@c End:
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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(at your option) any later version.
```

```
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```

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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1.39 cracklib 2.8.16 :4.el6

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

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Modifications: Added cronjob, configuration file, and man pages.

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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively

involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=20Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
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Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

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In any case, I thank you both for working on sorting this out.

Cheers,

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

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Nathan Neulinger is the only one who can actually make said change ...

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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000

Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

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-- Nathan

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Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
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Mon, 1 Oct 2007 12:26:02 -0500
Received: (gmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
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X-Originating-Rutherford-IP: [82.68.43.14]
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Status: RO
Content-Length: 585
Lines: 21

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The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.40 cracklib-dicts 2.8.16 :4.e16

1.40.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

^L

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of

free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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^L

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise

permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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END OF TERMS AND CONDITIONS

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<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=

=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=

eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =

a=20

library to dictact to application writes what license they should be using.=

=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

>> I understand that, and you're welcome to bring it up with Alec

> directly

>> and see if he wants to relicense his code as LGPL... but at this

> point,

>> it was enough to just get it consistent and documented as to what

> it was

>> released under. This wasn't actually a license change, just a

>> clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a

>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.
>>
>> I am sympathetic. Guys, what do you reckon?
>>
>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the

interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (gmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]

Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.41 cronie 1.4.4 :16.el6_8.2

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1.42 cronie-anacron 1.4.4 :16.el6_8.2

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1.43 crontabs 1.10 :33.el6

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1.46 cups 1.4.2 :67.e16

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<OL TYPE="a">

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<P>Version 2, June 1991

<PRE>

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<OL START="0">

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<PRE>

<VAR>one line to give the program's name and an idea of what it does.</VAR>
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</PRE>

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<PRE>

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.

</PRE>

<P>The hypothetical commands <SAMP>`show w'</SAMP> and <SAMP>`show c'</SAMP> should show
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commands you use may be called something other than <SAMP>`show w'</SAMP> and
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<P>You should also get your employer (if you work as a programmer) or your
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<PRE>

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interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.

<VAR>signature of Ty Coon</VAR>, 1 April 1989
Ty Coon, President of Vice
</PRE>

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<P>Version 2, June 1991

<PRE>

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<OL TYPE="a">

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,

instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest

possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

```
{\rtf1\ansi\ansicpg1252\cocoartf1011
```

```
{\fonttbl{\f0\froman\fcharset0 Times-Roman;\f1\fnil\fcharset0 LucidaGrande;\f2\modern\fcharset0 Courier;\f3\modern\fcharset0 Courier-Oblique;}
```

```
{\colortbl;\red255\green255\blue255;\red0\green0\blue238;}
```

```
{*\listtable{\list\listtemplateid1\listhybrid{\listlevel\levelInfc23\levelInfcn23\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{\*\levelmarker \{disc\}}{\leveltext\leveltemplateid1\01\uc0\u8226};}{\levelnumbers;}\fi-360\li720\lin720}{\listname ;}\listid1}
```

```
{\list\listtemplateid2\listhybrid{\listlevel\levelInfc0\levelInfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace
```

e360\levelindent0{*\levelmarker \{\ decimal\}.}\{\leveltext\leveltemplateid101\02\00.}\{\levelnumbers\01;}\fi-360\li720\lin720

{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{*\levelmarker \{\ decimal\}.}\{\leveltext\leveltemplateid102\02\01.}\{\levelnumbers\01;}\fi-360\li1440\lin1440}{\listname ;}\listid2}

{\list\listtemplateid3\listhybrid{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{*\levelmarker \{\ decimal\}.}\{\leveltext\leveltemplateid201\02\00.}\{\levelnumbers\01;}\fi-360\li720\lin720

{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{*\levelmarker \{\ decimal\}.}\{\leveltext\leveltemplateid202\02\01.}\{\levelnumbers\01;}\fi-360\li1440\lin1440}{\listname ;}\listid3}

{\list\listtemplateid4\listhybrid{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{*\levelmarker \{\ decimal\}.}\{\leveltext\leveltemplateid301\02\00.}\{\levelnumbers\01;}\fi-360\li720\lin720}{\listname ;}\listid4}

{\list\listtemplateid5\listhybrid{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{*\levelmarker \{\ decimal\}.}\{\leveltext\leveltemplateid401\02\00.}\{\levelnumbers\01;}\fi-360\li720\lin720}{\listname ;}\listid5}

{\list\listtemplateid6\listhybrid{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{*\levelmarker \{\ decimal\}.}\{\leveltext\leveltemplateid501\02\00.}\{\levelnumbers\01;}\fi-360\li720\lin720}{\listname ;}\listid6}

{\list\listtemplateid7\listhybrid{\listlevel\levelnfc0\levelnfcn0\leveljcn0\leveljcn0\levelfollow0\levelstartat1\levelspace360\levelindent0{*\levelmarker \{\ decimal\}.}\{\leveltext\leveltemplateid601\02\00.}\{\levelnumbers\01;}\fi-360\li720\lin720}{\listname ;}\listid7}

{*\listoverrideable{\listoverride\listid1\listoverridecount0\ls1}{\listoverride\listid2\listoverridecount0\ls2}{\listoverride\listid3\listoverridecount0\ls3}{\listoverride\listid4\listoverridecount0\ls4}{\listoverride\listid5\listoverridecount0\ls5}{\listoverride\listid6\listoverridecount0\ls6}{\listoverride\listid7\listoverridecount0\ls7}}

\margl1440\margr1440\margb1800\margt1800\vieww9000\viewh8400\viewkind0

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\f0 1 Infinite Loop

\f1 \uc0\u8232

\f0 Cupertino, CA 95014 USA

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\f0 WWW: {\field{*\fldinst{HYPERLINK "http://www.cups.org/"}\{\fldrslt \cf2 \ul \ulc2 http://www.cups.org}}}

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\b\fs28 \cf0 Introduction\
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\fs24 \nosupersub is provided under the GNU General Public License ("GPL") and GNU Library General Public

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\b\fs28 \cf0 License Exceptions\

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\b0\fs24 \cf0 In addition, as the copyright holder of CUPS, Apple Inc. grants the following special exceptions:\

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\ls2\ilvl0

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\b \cf0 {\listtext 2. }OpenSSL Toolkit License Exception

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\b0 \cf0 {\listtext 1. }This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".\

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\ls3\ilvl0\cf0 {\listtext 3. }You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.\

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\ls3\ilvl0\cf0 {\listtext 4. }You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.\

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5. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1. You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

2. You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

3. If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

6. These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

7. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

8. In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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1. Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

2. Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

3. Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

10. The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of

the operating system on which the executable runs, unless that component itself accompanies the executable.\\

{\listtext 11. }If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.\\

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\ls3\ilvl0\cf0 {\listtext 12. }You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.\\

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\ls3\ilvl0\cf0 {\listtext 16. }If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.\\

{\listtext 17. }It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.\\

{\listtext 18. }This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.\\

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{\listtext 20. }The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.\\

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How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C)

\f3 *yyyy*

\f2*i0*

\f3 *name of author*

\f2*i0 *

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modify it under the terms of the GNU General Public License
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of the License, or (at your option) any later version.\

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along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.\

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\f0 \cf0 Also add information on how to contact you by electronic and paper mail.\

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:\

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\f2 \cf0 Gnomovision version 69, Copyright (C)

\f3 *year*

\f2*i0*

\f3 *name of author*

\f2*i0 *

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c' \
for details.\

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\f0 \cf0 The hypothetical commands

\f2 `show w'

\f0 and

\f2 `show c'

\f0 should show the appropriate parts of the General Public License. Of course, the commands you use may be
called something other than

\f2 `show w'

\f0 and

\f2 `show c'

\f0 ; they could even be mouse-clicks or menu items--whatever suits your program.\

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright
disclaimer" for the program, if necessary. Here is a sample; alter the names:\

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\f2 \cf0 Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision`
(which makes passes at compilers) written \
by James Hacker.\

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\f3\i \cf0 signature of Ty Coon
\f2\i0 , 1 April 1989\
Ty Coon, President of Vice\
\pard\pardefstab720\sa280\ql\qnatural

\f0\b\fs36 \cf0 GNU LIBRARY GENERAL PUBLIC LICENSE\
\pard\pardefstab720\sa240\ql\qnatural

\b0\fs24 \cf0 Version 2, June 1991\
\pard\pardefstab720\ql\qnatural

\f2 \cf0 Copyright (C) 1991 Free Software Foundation, Inc.\
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA\
Everyone is permitted to copy and distribute verbatim copies\
of this license document, but changing it is not allowed.\

\

[This is the first released version of the library GPL. It is\
numbered 2 because it goes with version 2 of the ordinary GPL.]\

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\f0\b \cf0 Preamble\
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\b0 \cf0 The licenses for most software are designed to take away your freedom to share and change it. By contrast,
the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users.\

This license, the Library General Public License, applies to some specially designated Free Software Foundation
software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.\

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to
make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish),
that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.\

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to
surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the
library, or if you modify it.\

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the
rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program
with the library, you must provide complete object files to the recipients so that they can relink them with the
library, after making changes to the library and recompiling it. And you must show them these terms so they know
their rights.\

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.\

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.\

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.\

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.\

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.\

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.\

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.\

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.\

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.\

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\b \cf0 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION\

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\b0 This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".\

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.\

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)\

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.\

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.\

\b 1.

\b0 You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.\

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.\

\b 2.

\b0 You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:\

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\ls5\ilvl0\cf0 {\listtext 1. }The modified work must itself be a software library.\

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\ls5\ilvl0\cf0 {\listtext 2. }\

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\ls5\ilvl0\cf0 {\listtext 3. }You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.\

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\ls5\ilvl0\cf0 {\listtext 4. }\

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\ls5\ilvl0\cf0 {\listtext 5. }You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.\

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\ls5\ilvl0\cf0 {\listtext 6. }\

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\ls5\ilvl0\cf0 {\listtext 7. }If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.\

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\ls5\ilvl0\cf0 {\listtext 8. }(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)\

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\cf0 These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.\

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.\ In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.\

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\b \cf0 3.

\b0 You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.\

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.\

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.\

\b 4.

\b0 You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.\

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.\

\b 5.

\b0 A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.\

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.\

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.\

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)\

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.\

\b 6.

\b0 As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.\

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:\

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\ls6\ilvl0\cf0 {\listtext 1. }Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)\

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\ls6\ilvl0\cf0 {\listtext 2. } \

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\ls6\ilvl0\cf0 {\listtext 3. }Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.\

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\ls6\ilvl0\cf0 {\listtext 4. } \

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\ls6\ilvl0\cf0 {\listtext 5. }If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.\

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\ls6\ilvl0\cf0 {\listtext 6. } \

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\ls6\ilvl0\cf0 {\listtext 7. }Verify that the user has already received a copy of these materials or that you have already sent this user a copy.\

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\cf0 For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.\

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.\

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\b \cf0 7.

\b0 You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and

provided that you do these two things:\

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\ls7\ilvl0\cf0 {\listtext 1. }Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.\

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\ls7\ilvl0\cf0 {\listtext 2. }\

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\f2\i0 , 1 April 1990\

Ty Coon, President of Vice\

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```

\fo \cf0 That's all there is to it!
}
dnl
dnl "$Id: cups-sharedlibs.m4 8344 2009-02-10 17:05:35Z mike $"
dnl
dnl Shared library support for the Common UNIX Printing System (CUPS).
dnl
dnl Copyright 2007-2009 by Apple Inc.
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dnl

```

```

PICFLAG=1
DSOFLAGS="{DSOFLAGS:=}"

```

```

AC_ARG_ENABLE(shared, [ --disable-shared do not create shared libraries])

```

```

if test x$enable_shared != xno; then
case "$uname" in
SunOS*)
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPSDRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-h\`basename \@ \` -G \$(OPTIM)"
;;
UNIX_S*)
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPSDRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-h,\`basename \@ \` -G \$(OPTIM)"
;;
HP-UX*)

```

```

case "$sarch" in
ia64)
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPSDRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-b,-z,+h,\`basename \$@\`"
;;
*)
LIBCUPS="libcups.sl.2"
LIBCUPSCGI="libcupscgi.sl.1"
LIBCUPSDRIVER="libcupsdriver.sl.1"
LIBCUPSIMAGE="libcupsimage.sl.2"
LIBCUPSMIME="libcupsmime.sl.1"
LIBCUPSPPDC="libcupsppdc.sl.1"
DSO="\$(LD)"
DSOXX="\$(LD)"
DSOFLAGS="$DSOFLAGS -b -z +h \`basename \$@\`"
;;
esac
;;
IRIX)
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPSDRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -set_version,sgi2.6,-soname,\`basename \$@\` -shared \$(OPTIM)"
;;
OSF1* | Linux | GNU | *BSD*)
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPSDRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-soname,\`basename \$@\` -shared \$(OPTIM)"
;;
Darwin*)

```

```

LIBCUPS="libcups.2.dylib"
LIBCUPSCGI="libcupscgi.1.dylib"
LIBCUPS DRIVER="libcupsdriver.1.dylib"
LIBCUPSIMAGE="libcupsimage.2.dylib"
LIBCUPSMIME="libcupsmime.1.dylib"
LIBCUPSPPDC="libcupsppdc.1.dylib"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -dynamiclib -single_module -lc"
;;
AIX*)
LIBCUPS="libcups_s.a"
LIBCUPSCGI="libcupscgi_s.a"
LIBCUPS DRIVER="libcupsdriver_s.a"
LIBCUPSIMAGE="libcupsimage_s.a"
LIBCUPSMIME="libcupsmime_s.a"
LIBCUPSPPDC="libcupsppdc_s.a"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-bexpall,-bM:SRE,-bnoentry,-bllibpath:\$(libdir)"
;;
*)
echo "Warning: shared libraries may not be supported. Trying -shared"
echo "    option with compiler."
LIBCUPS="libcups.so.2"
LIBCUPSCGI="libcupscgi.so.1"
LIBCUPS DRIVER="libcupsdriver.so.1"
LIBCUPSIMAGE="libcupsimage.so.2"
LIBCUPSMIME="libcupsmime.so.1"
LIBCUPSPPDC="libcupsppdc.so.1"
DSO="\$(CC)"
DSOXX="\$(CXX)"
DSOFLAGS="$DSOFLAGS -Wl,-soname,\`basename \${@}\` -shared \$(OPTIM)"
;;
esac
else
PICFLAG=0
LIBCUPS="libcups.a"
LIBCUPSCGI="libcupscgi.a"
LIBCUPS DRIVER="libcupsdriver.a"
LIBCUPSIMAGE="libcupsimage.a"
LIBCUPSMIME="libcupsmime.a"
LIBCUPSPPDC="libcupsppdc.a"
DSO=":"
DSOXX=":"
fi

```

32-bit and 64-bit libraries need variations of the standard

```

# DSOFLAGS...
DSO32FLAGS="$DSOFLAGS"
DSO64FLAGS="$DSOFLAGS"

AC_SUBST(DSO)
AC_SUBST(DSOXX)
AC_SUBST(DSOFLAGS)
AC_SUBST(DSO32FLAGS)
AC_SUBST(DSO64FLAGS)
AC_SUBST(LIBCUPS)
AC_SUBST(LIBCUPSCGI)
AC_SUBST(LIBCUPSDRIVER)
AC_SUBST(LIBCUPSIMAGE)
AC_SUBST(LIBCUPSMIME)
AC_SUBST(LIBCUPSPPDC)

if test x$enable_shared = xno; then
  LINKCUPS="../cups/libcups.a"
  LINKCUPSIMAGE="../filter/libcupsimage.a"
else
  if test $uname = AIX; then
    LINKCUPS="-lcups_s"
    LINKCUPSIMAGE="-lcupsimage_s"
  else
    LINKCUPS="-lcups"
    LINKCUPSIMAGE="-lcupsimage"
  fi
fi

AC_SUBST(LINKCUPS)
AC_SUBST(LINKCUPSIMAGE)

dnl Update libraries for DSOs...
EXPORT_LDFLAGS=""

if test "$DSO" != ":"; then
  # When using DSOs the image libraries are linked to libcupsimage.so
  # rather than to the executables. This makes things smaller if you
  # are using any static libraries, and it also allows us to distribute
  # a single DSO rather than a bunch...
  DSOLIBS="\$(LIBTIFF) \$(LIBPNG) \$(LIBJPEG) \$(LIBZ)"
  IMGLIBS=""

  # Tell the run-time linkers where to find a DSO. Some platforms
  # need this option, even when the library is installed in a
  # standard location...
  case $uname in
    HP-UX*)

```

```

# HP-UX needs the path, even for /usr/lib...
case "$sarch" in
ia64)
DSOFLAGS="-Wl,+s,+b,$libdir $DSOFLAGS"
DSO32FLAGS="-Wl,+s,+b,$LIB32DIR $DSO32FLAGS"
DSO64FLAGS="-Wl,+s,+b,$LIB64DIR $DSO64FLAGS"
;;
*)
    DSOFLAGS="+s +b $libdir $DSOFLAGS"
    DSO32FLAGS="+s +b $LIB32DIR $DSO32FLAGS"
    DSO64FLAGS="+s +b $LIB64DIR $DSO64FLAGS"
    ;;
esac

LDFLAGS="$LDFLAGS -Wl,+s,+b,$libdir"
EXPORT_LDFLAGS="-Wl,+s,+b,$libdir"
;;

SunOS*)
    # Solaris...
if test $exec_prefix != /usr; then
DSOFLAGS="-R$libdir $DSOFLAGS"
DSO32FLAGS="-R$LIB32DIR $DSO32FLAGS"
DSO64FLAGS="-R$LIB64DIR $DSO64FLAGS"
LDFLAGS="$LDFLAGS -R$libdir"
EXPORT_LDFLAGS="-R$libdir"
fi
;;

*BSD*)
    # *BSD...
if test $exec_prefix != /usr; then
DSOFLAGS="-Wl,-R$libdir $DSOFLAGS"
DSO32FLAGS="-Wl,-R$LIB32DIR $DSO32FLAGS"
DSO64FLAGS="-Wl,-R$LIB64DIR $DSO64FLAGS"
LDFLAGS="$LDFLAGS -Wl,-R$libdir"
EXPORT_LDFLAGS="-Wl,-R$libdir"
fi
;;

IRIX | Linux | GNU)
    # IRIX, Linux, and HURD...
if test $exec_prefix != /usr; then
DSOFLAGS="-Wl,-rpath,$libdir $DSOFLAGS"
DSO32FLAGS="-Wl,-rpath,$LIB32DIR $DSO32FLAGS"
DSO64FLAGS="-Wl,-rpath,$LIB64DIR $DSO64FLAGS"
LDFLAGS="$LDFLAGS -Wl,-rpath,$libdir"
EXPORT_LDFLAGS="-Wl,-rpath,$libdir"
fi
;;
esac
else

```



```

DSOLIBS=""
IMGLIBS="\$(LIBTIFF) \$(LIBPNG) \$(LIBJPEG) \$(LIBZ)"
fi

AC_SUBST(DSOLIBS)
AC_SUBST(IMGLIBS)
AC_SUBST(EXPORT_LDFLAGS)

dnl
dnl End of "$Id: cups-sharedlibs.m4 8344 2009-02-10 17:05:35Z mike $".
dnl
/*
 * "$Id: cupsfilter.c 8700 2009-06-05 21:38:52Z mike $"
 *
 * CUPS filtering program for the Common UNIX Printing System (CUPS).
 *
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 *
 * Contents:
 *
 * main() - Main entry for the test program.
 * compare_pids() - Compare two filter PIDs...
 * escape_options() - Convert an options array to a string.
 * exec_filter() - Execute a single filter.
 * exec_filters() - Execute filters for the given file and options.
 * get_job_file() - Get the specified job file.
 * open_pipe() - Create a pipe which is closed on exec.
 * read_cupsd_conf() - Read the cupsd.conf file to get the filter settings.
 * set_string() - Copy and set a string.
 * usage() - Show program usage...
 */

/*
 * Include necessary headers...
 */

#include <cups/cups.h>
#include <cups/i18n.h>
#include <cups/string.h>
#include <errno.h>
#include "mime.h"

```

```

#include <stdlib.h>
#include <limits.h>
#include <unistd.h>
#include <fcntl.h>
#include <signal.h>
#include <sys/wait.h>
#if defined(__APPLE__)
# include <libgen.h>
#endif /* __APPLE__ */

/*
 * Local globals...
 */

static char *DataDir = NULL; /* CUPS_DATADIR environment variable */
static char *FontPath = NULL;
    /* CUPS_FONTPATH environment variable */
static mime_filter_t GZIPFilter = /* gziptoany filter */
{
    NULL, /* Source type */
    NULL, /* Destination type */
    0, /* Cost */
    "gziptoany" /* Filter program to run */
};
static char *Path = NULL; /* PATH environment variable */
static char *ServerBin = NULL;
    /* CUPS_SERVERBIN environment variable */
static char *ServerRoot = NULL;
    /* CUPS_SERVERROOT environment variable */
static char *RIPCACHE = NULL;
    /* RIP_CACHE environment variable */
static char TempFile[1024] = "";
    /* Temporary file */

/*
 * Local functions...
 */

static void add_printer_filter(const char *command, mime_t *mime,
    mime_type_t *printer_type,
    const char *filter);
static mime_type_t *add_printer_filters(const char *command,
    mime_t *mime, const char *printer,
    const char *ppdf,
    mime_type_t **prefilter_type);
static int compare_pids(mime_filter_t *a, mime_filter_t *b);

```

```

static char *escape_options(int num_options, cups_option_t *options);
static int exec_filter(const char *filter, char **argv,
    char **envp, int infd, int outfd);
static int exec_filters(mime_type_t *srctype,
    cups_array_t *filters, const char *infile,
    const char *outfile, const char *ppdfile,
    const char *printer, const char *user,
    const char *title, int num_options,
    cups_option_t *options);
static void get_job_file(const char *job);
static int open_pipe(int *fds);
static int read_cupsd_conf(const char *filename);
static void set_string(char **s, const char *val);
static void sighandler(int sig);
static void usage(const char *command, const char *opt);

/*
 * 'main()' - Main entry for the test program.
 */

int /* O - Exit status */
main(int argc, /* I - Number of command-line args */
    char *argv[]) /* I - Command-line arguments */
{
    int i; /* Looping vars */
    const char *command, /* Command name */
    *opt, /* Current option */
    *printer; /* Printer name */
    mime_type_t *printer_type, /* Printer MIME type */
    *prefilter_type; /* Printer prefilter MIME type */
    char *srctype, /* Source type */
    *dsttype, /* Destination type */
    super[MIME_MAX_SUPER], /* Super-type name */
    type[MIME_MAX_TYPE]; /* Type name */
    int compression; /* Compression of file */
    int cost; /* Cost of filters */
    mime_t *mime; /* MIME database */
    char mimedir[1024]; /* MIME directory */
    char *infile, /* File to filter */
    *outfile; /* File to create */
    char cupsdconf[1024]; /* cupsd.conf file */
    const char *server_root; /* CUPS_SERVERROOT environment variable */
    mime_type_t *src, /* Source type */
    *dst; /* Destination type */
    cups_array_t *filters; /* Filters for the file */
    int num_options; /* Number of options */
    cups_option_t *options; /* Options */

```

```

const char *ppdfile; /* PPD file */
const char *title, /* Title string */
 *user; /* Username */
int all_filters, /* Use all filters */
removeppd, /* Remove PPD file */
removeinfile; /* Remove input file */
int status; /* Execution status */

/*
 * Setup defaults...
 */

if ((command = strchr(argv[0], '/')) != NULL)
    command ++;
else
    command = argv[0];

printer = !strcmp(command, "convert") ? "tofile" : "cupsfilter";
mime = NULL;
srctype = NULL;
compression = 0;
dsttype = "application/pdf";
infile = NULL;
outfile = NULL;
num_options = 0;
options = NULL;
ppdfile = NULL;
title = NULL;
user = cupsUser();
all_filters = 0;
removeppd = 0;
removeinfile = 0;

if ((server_root = getenv("CUPS_SERVERROOT")) == NULL)
    server_root = CUPS_SERVERROOT;

snprintf(cupsdconf, sizeof(cupsdconf), "%s/cupsd.conf", server_root);

/*
 * Process command-line arguments...
 */

_cupsSetLocale(argv);

for (i = 1; i < argc; i ++)
    if (argv[i][0] == '-')
        {

```

```

for (opt = argv[i] + 1; *opt; opt++)
    switch (*opt)
    {
case '-': /* Next argument is a filename... */
    i++;
    if (i < argc && !infile)
        infile = argv[i];
    else
        usage(command, opt);
    break;

    case 'a': /* Specify option... */
    i++;
    if (i < argc)
        num_options = cupsParseOptions(argv[i], num_options, &options);
    else
        usage(command, opt);
    break;

    case 'c': /* Specify cupsd.conf file location... */
    i++;
    if (i < argc)
    {
        if (!strcmp(command, "convert"))
            num_options = cupsAddOption("copies", argv[i], num_options,
                &options);
    else
        strcpy(cupsdconf, argv[i], sizeof(cupsdconf));
    }
    else
        usage(command, opt);
    break;

case 'D': /* Delete input file after conversion */
    removeinfile = 1;
    break;

    case 'e': /* Use every filter from the PPD file */
    all_filters = 1;
    break;

    case 'f': /* Specify input file... */
    i++;
    if (i < argc && !infile)
        infile = argv[i];
    else
        usage(command, opt);
    break;

```

```

    case 'i' : /* Specify source MIME type... */
    i ++;
    if (i < argc)
    {
        if (sscanf(argv[i], "%15[^/]%255s", super, type) != 2)
        usage(command, opt);

        srctype = argv[i];
    }
    else
        usage(command, opt);
    break;

    case 'j' : /* Get job file or specify destination MIME type... */
        if (strcmp(command, "convert"))
        {
            i ++;
        if (i < argc)
        {
            get_job_file(argv[i]);
            infile = TempFile;
        }
        else
            usage(command, opt);

            break;
        }

    case 'm' : /* Specify destination MIME type... */
    i ++;
    if (i < argc)
    {
        if (sscanf(argv[i], "%15[^/]%255s", super, type) != 2)
        usage(command, opt);

        dsttype = argv[i];
    }
    else
        usage(command, opt);
    break;

    case 'n' : /* Specify number of copies... */
    i ++;
    if (i < argc)
        num_options = cupsAddOption("copies", argv[i], num_options,
            &options);
    else

```

```

usage(command, opt);
break;

case 'o' : /* Specify option(s) or output filename */
i ++;
if (i < argc)
{
if (!strcmp(command, "convert"))
{
if (outfile)
usage(command, NULL);
else
outfile = argv[i];
}
else
num_options = cupsParseOptions(argv[i], num_options,
&options);
}
else
usage(command, opt);
break;

case 'p' : /* Specify PPD file... */
case 'P' : /* Specify PPD file... */
i ++;
if (i < argc)
ppdfile = argv[i];
else
usage(command, opt);
break;

case 't' : /* Specify title... */
case 'J' : /* Specify title... */
i ++;
if (i < argc)
title = argv[i];
else
usage(command, opt);
break;

case 'u' : /* Delete PPD file after conversion */
removeinfile = 1;
break;

case 'U' : /* Specify username... */
i ++;
if (i < argc)
user = argv[i];

```

```

else
    usage(command, opt);
break;

default : /* Something we don't understand... */
    usage(command, opt);
    break;
}
}
else if (!infile)
{
    if (strcmp(command, "convert"))
infile = argv[i];
    else
    {
_cupsLangPuts(stderr,
    _("convert: Use the -f option to specify a file to "
    "convert.\n"));
usage(command, NULL);
    }
}
else
{
    _cupsLangPuts(stderr,
        _("cupsfilter: Only one filename can be specified!\n"));
    usage(command, NULL);
}

if (!infile && !srctype)
    usage(command, NULL);

if (!title)
{
    if (!infile)
        title = "(stdin)";
    else if ((title = strchr(infile, '/')) != NULL)
        title ++;
    else
        title = infile;
}

/*
 * Load the cupsd.conf file and create the MIME database...
 */

if (read_cupsd_conf(cupsdconf))
    return (1);

```



```

sprintf(mimedir, sizeof(mimedir), "%s/mime", DataDir);

mime = mimeLoadTypes(NULL, mimedir);
mime = mimeLoadTypes(mime, ServerRoot);
mime = mimeLoadFilters(mime, mimedir, Path);
mime = mimeLoadFilters(mime, ServerRoot, Path);

if (!mime)
{
    _cupsLangPrintf(stderr,
        _("%s: Unable to read MIME database from \"%s\" or "
            "\"%s\"!\n"),
        command, mimedir, ServerRoot);
    return (1);
}

if (all_filters)
{
    printer_type = add_printer_filters(command, mime, printer, ppdf,
        &prefilter_type);
}
else
{
    printer_type = mimeType(mime, "application", "vnd.cups-postscript");
    prefilter_type = NULL;
}

/*
 * Get the source and destination types...
 */

if (srctype)
{
    sscanf(srctype, "%15[^\n]/%255s", super, type);
    if ((src = mimeType(mime, super, type)) == NULL)
    {
        _cupsLangPrintf(stderr,
            _("%s: Unknown source MIME type %s/%s!\n"),
            command, super, type);
        return (1);
    }
}
else if ((src = mimeType(mime, infile, infile, &compression)) == NULL)
{
    _cupsLangPrintf(stderr,
        _("%s: Unable to determine MIME type of \"%s\"!\n"),
        command, infile);
    return (1);
}

```

```

}

sscanf(dsttype, "%15[^\n]/%255s", super, type);
if (!strcasecmp(super, "printer"))
    dst = printer_type;
else if ((dst = mimeType(mime, super, type)) == NULL)
{
    _cupsLangPrintf(stderr,
        _("%s: Unknown destination MIME type %s/%s!\n"),
        command, super, type);
    return (1);
}

/*
 * Figure out how to filter the file...
 */

if (src == dst)
{
    /*
     * Special case - no filtering needed...
     */

    filters = cupsArrayNew(NULL, NULL);
    cupsArrayAdd(filters, &GZIPFilter);
    GZIPFilter.src = src;
    GZIPFilter.dst = dst;
}
else if ((filters = mimeType(mime, src, dst, &cost)) == NULL)
{
    _cupsLangPrintf(stderr,
        _("%s: No filter to convert from %s/%s to %s/%s!\n"),
        command, src->super, src->type, dst->super, dst->type);
    return (1);
}
else if (compression)
    cupsArrayInsert(filters, &GZIPFilter);

if (prefilter_type)
{
    /*
     * Add pre-filters...
     */

    mime_filter_t *filter, /* Current filter */
    *prefilter; /* Current pre-filter */
    cups_array_t *prefilters = cupsArrayNew(NULL, NULL);
    /* New filters array */

```

```

    for (filter = (mime_filter_t *)cupsArrayFirst(filters);
        filter;
        filter = (mime_filter_t *)cupsArrayNext(filters))
    {
        if ((prefilter = mimeFilterLookup(mime, filter->src,
                                         prefilter_type)) != NULL)
            cupsArrayAdd(prefilters, prefilter);

        cupsArrayAdd(prefilters, filter);
    }

    cupsArrayDelete(filters);
    filters = prefilters;
}

/*
 * Do it!
 */

status = exec_filters(src, filters, infile, outfile, ppdfile, printer, user,
                    title, num_options, options);

/*
 * Remove files as needed, then exit...
 */

if (TempFile[0])
    unlink(TempFile);

if (removeppd && ppdfile)
    unlink(ppdfile);

if (removeinfile && infile)
    unlink(infile);

return (status);
}

/*
 * 'add_printer_filter()' - Add a single filters from a PPD file.
 */

static void
add_printer_filter(
    const char *command, /* I - Command name */

```

```

mime_t    *mime, /* I - MIME database */
mime_type_t *filtertype, /* I - Printer or prefilter MIME type */
const char *filter) /* I - Filter to add */
{
char super[MIME_MAX_SUPER], /* Super-type for filter */
type[MIME_MAX_TYPE], /* Type for filter */
program[1024]; /* Program/filter name */
int cost; /* Cost of filter */
mime_type_t *temptype; /* MIME type looping var */
char filename[1024]; /* Full filter filename */

/*
 * Parse the filter string; it should be in the following format:
 *
 * super/type cost program
 */

if (sscanf(filter, "%15[^/]/%31s%d%*[ \t]%1023[^\n]", super, type, &cost,
program) != 4)
{
_cupsLangPrintf(stderr, _("%s: Invalid filter string \"%s\"\n"), command,
filter);
return;
}

/*
 * See if the filter program exists; if not, stop the printer and flag
 * the error!
 */

if (strcmp(program, "-"))
{
if (program[0] == '/')
strncpy(filename, program, sizeof(filename));
else
snprintf(filename, sizeof(filename), "%s/filter/%s", ServerBin, program);

if (access(filename, X_OK))
{
_cupsLangPrintf(stderr, _("%s: Filter \"%s\" not available: %s\n"),
command, program, strerror(errno));
return;
}
}

/*
 * Add the filter to the MIME database, supporting wildcards as needed...

```

```

*/

for (temptype = mimeFirstType(mime);
    temptype;
    temptype = mimeNextType(mime))
if (((super[0] == '*' && strcasecmp(temptype->super, "printer")) ||
    !strcasecmp(temptype->super, super)) &&
    (type[0] == '*' || !strcasecmp(temptype->type, type)))
    mimeAddFilter(mime, temptype, filtertype, cost, program);
}

/*
* 'add_printer_filters()' - Add filters from a PPD file.
*/

static mime_type_t * /* O - Printer type or NULL on error */
add_printer_filters(
    const char *command, /* I - Command name */
    mime_t *mime, /* I - MIME database */
    const char *printer, /* I - Printer name */
    const char *ppdfile, /* I - PPD file */
    mime_type_t **prefilter_type) /* O - Prefilter type */
{
    int i; /* Looping var */
    mime_type_t *printer_type; /* Printer MIME type */
    ppd_file_t *ppd; /* PPD file data */
    ppd_attr_t *ppdattr; /* Current prefilter */

    *prefilter_type = NULL;

    if ((ppd = ppdOpenFile(ppdfile)) == NULL)
    {
        ppd_status_t status; /* PPD load status */

        status = ppdLastError(&i);
        _cupsLangPrintf(stderr, _("%s: Unable to open PPD file: %s on line %d\n"),
            command, ppdErrorString(status), i);
        return (NULL);
    }

    printer_type = mimeAddType(mime, "printer", printer);

    if (ppd->num_filters > 0)
    {
        for (i = 0; i < ppd->num_filters; i++)
            add_printer_filter(command, mime, printer_type, ppd->filters[i]);
    }
}

```

```

}
else
{
    add_printer_filter(command, mime, printer_type,
        "application/vnd.cups-command 0 commandtops");
    add_printer_filter(command, mime, printer_type,
        "application/vnd.cups-postscript 0 -");
}

if ((ppdatr = ppdFindAttr(ppd, "cupsPreFilter", NULL)) != NULL)
{
    *prefilter_type = mimeAddType(mime, "prefilter", printer);

    for (; ppdatr; ppdatr = ppdFindNextAttr(ppd, "cupsPreFilter", NULL))
        if (ppdatr->value)
            add_printer_filter(command, mime, *prefilter_type, ppdatr->value);
}
else
    *prefilter_type = NULL;

return (printer_type);
}

```

```

/*
 * 'compare_pids()' - Compare two filter PIDs...
 */

```

```

static int /* O - Result of comparison */
compare_pids(mime_filter_t *a, /* I - First filter */
             mime_filter_t *b) /* I - Second filter */
{
    /*
     * Because we're particularly lazy, we store the process ID in the "cost"
     * variable...
     */

    return (a->cost - b->cost);
}

```

```

/*
 * 'escape_options()' - Convert an options array to a string.
 */

```

```

static char * /* O - Option string */
escape_options(
    int      num_options, /* I - Number of options */

```

```

    cups_option_t *options) /* I - Options */
{
    int i; /* Looping var */
    cups_option_t *option; /* Current option */
    int bytes; /* Number of bytes needed */
    char *s, /* Option string */
        *sptr, /* Pointer into string */
        *vptr; /* Pointer into value */

/*
 * Figure out the worst-case number of bytes we need for the option string.
 */

    for (i = num_options, option = options, bytes = 1; i > 0; i--, option++)
        bytes += 2 * (strlen(option->name) + strlen(option->value)) + 2;

    if ((s = malloc(bytes)) == NULL)
        return (NULL);

/*
 * Copy the options to the string...
 */

    for (i = num_options, option = options, sptr = s; i > 0; i--, option++)
    {
        if (!strcmp(option->name, "copies"))
            continue;

        if (sptr > s)
            *sptr++ = ' ';

        strcpy(sptr, option->name);
        sptr += strlen(sptr);
        *sptr++ = '=';

        for (vptr = option->value; *vptr;)
        {
            if (strchr("\\ \t\n", *vptr))
                *sptr++ = '\\';

            *sptr++ = *vptr++;
        }
    }

    *sptr = '\0';

    return (s);
}

```

```

}

/*
 * 'exec_filter()' - Execute a single filter.
 */

static int /* O - Process ID or -1 on error */
exec_filter(const char *filter, /* I - Filter to execute */
            char **argv, /* I - Argument list */
            char **envp, /* I - Environment list */
            int infd, /* I - Stdin file descriptor */
            int outfd) /* I - Stdout file descriptor */
{
    int pid, /* Process ID */
        fd; /* Temporary file descriptor */
#ifdef __APPLE__
    char processPath[1024], /* CFProcessPath environment variable */
        linkpath[1024]; /* Link path for symlinks... */
    int linkbytes; /* Bytes for link path */

    /*
     * Add special voodoo magic for MacOS X - this allows MacOS X
     * programs to access their bundle resources properly...
     */

    if ((linkbytes = readlink(filter, linkpath, sizeof(linkpath) - 1)) > 0)
    {
        /*
         * Yes, this is a symlink to the actual program, nul-terminate and
         * use it...
         */

        linkpath[linkbytes] = '\0';

        if (linkpath[0] == '/')
            snprintf(processPath, sizeof(processPath), "CFProcessPath=%s",
                    linkpath);
        else
            snprintf(processPath, sizeof(processPath), "CFProcessPath=%s/%s",
                    dirname((char *)filter), linkpath);
    }
    else
        snprintf(processPath, sizeof(processPath), "CFProcessPath=%s", filter);

    envp[0] = processPath; /* Replace <CFProcessPath> string */
#endif /* __APPLE__ */
}

```



```

if ((pid = fork()) == 0)
{
/*
* Child process goes here...
*
* Update stdin/stdout/stderr as needed...
*/

if (infd != 0)
{
if (infd < 0)
infd = open("/dev/null", O_RDONLY);

if (infd > 0)
{
dup2(infd, 0);
close(infd);
}
}

if (outfd != 1)
{
if (outfd < 0)
outfd = open("/dev/null", O_WRONLY);

if (outfd > 1)
{
dup2(outfd, 1);
close(outfd);
}
}

if ((fd = open("/dev/null", O_RDWR)) > 3)
{
dup2(fd, 3);
close(fd);
}
fcntl(3, F_SETFL, O_NDELAY);

if ((fd = open("/dev/null", O_RDWR)) > 4)
{
dup2(fd, 4);
close(fd);
}
fcntl(4, F_SETFL, O_NDELAY);

/*

```

```

* Execute command...
*/

execve(filter, argv, envp);

perror(filter);

exit(errno);
}

return (pid);
}

/*
* 'exec_filters()' - Execute filters for the given file and options.
*/

static int /* O - 0 on success, 1 on error */
exec_filters(mime_type_t *srctype, /* I - Source type */
            cups_array_t *filters, /* I - Array of filters to run */
            const char *infile, /* I - File to filter */
            const char *outfile, /* I - File to create */
            const char *ppdfile, /* I - PPD file, if any */
            const char *printer, /* I - Printer name */
            const char *user, /* I - Username */
            const char *title, /* I - Job title */
            int num_options, /* I - Number of filter options */
            cups_option_t *options) /* I - Filter options */
{
int i; /* Looping var */
const char *argv[8], /* Command-line arguments */
*envp[12], /* Environment variables */
*temp; /* Temporary string */
char *optstr, /* Filter options */
content_type[1024], /* CONTENT_TYPE */
cups_datadir[1024], /* CUPS_DATADIR */
cups_fontpath[1024], /* CUPS_FONTPATH */
cups_serverbin[1024], /* CUPS_SERVERBIN */
cups_serverroot[1024], /* CUPS_SERVERROOT */
lang[1024], /* LANG */
path[1024], /* PATH */
ppd[1024], /* PPD */
rip_cache[1024], /* RIP_CACHE */
userenv[1024], /* USER */
program[1024]; /* Program to run */
mime_filter_t *filter, /* Current filter */
*next; /* Next filter */

```

```

int current, /* Current filter */
filterfds[2][2], /* Pipes for filters */
pid, /* Process ID of filter */
status, /* Exit status */
retval; /* Return value */
cups_array_t *pids; /* Executed filters array */
mime_filter_t key; /* Search key for filters */
cups_lang_t *language; /* Current language */

/*
 * Setup the filter environment and command-line...
 */

optstr = escape_options(num_options, options);

snprintf(content_type, sizeof(content_type), "CONTENT_TYPE=%s/%s",
          srctype->super, srctype->type);
snprintf(cups_datadir, sizeof(cups_datadir), "CUPS_DATADIR=%s", DataDir);
snprintf(cups_fontpath, sizeof(cups_fontpath), "CUPS_FONTPATH=%s", FontPath);
snprintf(cups_serverbin, sizeof(cups_serverbin), "CUPS_SERVERBIN=%s",
          ServerBin);
snprintf(cups_serverroot, sizeof(cups_serverroot), "CUPS_SERVERROOT=%s",
          ServerRoot);
language = cupsLangDefault();
snprintf(lang, sizeof(lang), "LANG=%s.UTF8", language->language);
snprintf(path, sizeof(path), "PATH=%s", Path);
if (ppdfile)
    snprintf(ppd, sizeof(ppd), "PPD=%s", ppdfile);
else if ((temp = getenv("PPD")) != NULL)
    snprintf(ppd, sizeof(ppd), "PPD=%s", temp);
else
#ifdef __APPLE__
if (!access("/System/Library/Frameworks/ApplicationServices.framework/"
           "Versions/A/Frameworks/PrintCore.framework/Versions/A/"
           "Resources/English.lproj/Generic.ppd", 0))
    strlcpy(ppd, "PPD=/System/Library/Frameworks/ApplicationServices.framework/"
           "Versions/A/Frameworks/PrintCore.framework/Versions/A/"
           "Resources/English.lproj/Generic.ppd", sizeof(ppd));
else
    strlcpy(ppd, "PPD=/System/Library/Frameworks/ApplicationServices.framework/"
           "Versions/A/Frameworks/PrintCore.framework/Versions/A/"
           "Resources/Generic.ppd", sizeof(ppd));
#else
    snprintf(ppd, sizeof(ppd), "PPD=%s/model/laserjet.ppd", DataDir);
#endif /* __APPLE__ */
snprintf(rip_cache, sizeof(rip_cache), "RIP_CACHE=%s", RIPCache);
snprintf(userenv, sizeof(userenv), "USER=%s", user);

```

```

argv[0] = (char *)printer;
argv[1] = "1";
argv[2] = user;
argv[3] = title;
argv[4] = cupsGetOption("copies", num_options, options);
argv[5] = optstr;
argv[6] = infile;
argv[7] = NULL;

if (!argv[4])
    argv[4] = "1";

envp[0] = "<CFProcessPath>";
envp[1] = content_type;
envp[2] = cups_datadir;
envp[3] = cups_fontpath;
envp[4] = cups_serverbin;
envp[5] = cups_serverroot;
envp[6] = lang;
envp[7] = path;
envp[8] = ppd;
envp[9] = rip_cache;
envp[10] = userenv;
envp[11] = NULL;

for (i = 0; argv[i]; i++)
    fprintf(stderr, "DEBUG: argv[%d]=\"%s\"\n", i, argv[i]);

for (i = 0; envp[i]; i++)
    fprintf(stderr, "DEBUG: envp[%d]=\"%s\"\n", i, envp[i]);

/*
 * Execute all of the filters...
 */

pids      = cupsArrayNew((cups_array_func_t)compare_pids, NULL);
current   = 0;
filterfds[0][0] = -1;
filterfds[0][1] = -1;
filterfds[1][0] = -1;
filterfds[1][1] = -1;

if (!infile)
    filterfds[0][0] = 0;

for (filter = (mime_filter_t *)cupsArrayFirst(filters);
     filter;

```

```

    filter = next, current = 1 - current)
{
next = (mime_filter_t *)cupsArrayNext(filters);

if (filter->filter[0] == '/')
    strcpy(program, filter->filter, sizeof(program));
else
    snprintf(program, sizeof(program), "%s/filter/%s", ServerBin,
        filter->filter);

if (filterfds[!current][1] > 1)
{
    close(filterfds[1 - current][0]);
    close(filterfds[1 - current][1]);

    filterfds[1 - current][0] = -1;
    filterfds[1 - current][0] = -1;
}

if (next)
    open_pipe(filterfds[1 - current]);
else if (outfile)
{
    filterfds[1 - current][1] = open(outfile, O_CREAT | O_TRUNC | O_WRONLY,
        0666);

    if (filterfds[1 - current][1] < 0)
        fprintf(stderr, "ERROR: Unable to create \"%s\" - %s\n", outfile,
            strerror(errno));
}
else
    filterfds[1 - current][1] = 1;

pid = exec_filter(program, (char **)argv, (char **)envp,
    filterfds[current][0], filterfds[1 - current][1]);

if (pid > 0)
{
    fprintf(stderr, "INFO: %s (PID %d) started.\n", filter->filter, pid);

    filter->cost = pid;
    cupsArrayAdd(pids, filter);
}
else
    break;

argv[6] = NULL;
}

```

```

/*
 * Close remaining pipes...
 */

if (filterfds[0][1] > 1)
{
    close(filterfds[0][0]);
    close(filterfds[0][1]);
}

if (filterfds[1][1] > 1)
{
    close(filterfds[1][0]);
    close(filterfds[1][1]);
}

/*
 * Wait for the children to exit...
 */

retval = 0;

while (cupsArrayCount(pids) > 0)
{
    if ((pid = wait(&status)) < 0)
        continue;

    key.cost = pid;
    if ((filter = (mime_filter_t *)cupsArrayFind(pids, &key)) != NULL)
    {
        cupsArrayRemove(pids, filter);

        if (status)
        {
            if (WIFEXITED(status))
                fprintf(stderr, "ERROR: %s (PID %d) stopped with status %d!\n",
                    filter->filter, pid, WEXITSTATUS(status));
            else
                fprintf(stderr, "ERROR: %s (PID %d) crashed on signal %d!\n",
                    filter->filter, pid, WTERMSIG(status));

            retval = 1;
        }
        else
            fprintf(stderr, "INFO: %s (PID %d) exited with no errors.\n",
                filter->filter, pid);
    }
}

```

```

}

cupsArrayDelete(pids);

return (retval);
}

/*
 * 'get_job_file()' - Get the specified job file.
 */

static void
get_job_file(const char *job) /* I - Job ID */
{
    long jobid, /* Job ID */
        docnum; /* Document number */
    const char *jobptr; /* Pointer into job ID string */
    char uri[1024]; /* job-uri */
    http_t *http; /* Connection to server */
    ipp_t *request; /* Request data */
    int tempfd; /* Temporary file */

    /*
     * Get the job ID and document number, if any...
     */

    if ((jobptr = strrchr(job, '-')) != NULL)
        jobptr++;
    else
        jobptr = job;

    jobid = strtol(jobptr, (char **)&jobptr, 10);

    if (*jobptr == '-')
        docnum = strtol(jobptr + 1, NULL, 10);
    else
        docnum = 1;

    if (jobid < 1 || jobid > INT_MAX)
    {
        _cupsLangPrintf(stderr, _("cupsfilter: Invalid job ID %d!\n"), (int)jobid);
        exit(1);
    }

    if (docnum < 1 || docnum > INT_MAX)
    {

```

```

    _cupsLangPrintf(stderr, _("cupsfilter: Invalid document number %d!\n"),
                    (int)docnum);
    exit(1);
}

/*
 * Ask the server for the document file...
 */

if ((http = httpConnectEncrypt(cupsServer(), ippPort(),
                              cupsEncryption())) == NULL)
{
    _cupsLangPrintf(stderr, _("%s: Unable to connect to server\n"),
                    "cupsfilter");
    exit(1);
}

request = ippNewRequest(CUPS_GET_DOCUMENT);

snprintf(uri, sizeof(uri), "ipp://localhost/jobs/%d", (int)jobid);

ippAddString(request, IPP_TAG_OPERATION, IPP_TAG_URI, "job-uri", NULL, uri);
ippAddInteger(request, IPP_TAG_OPERATION, IPP_TAG_INTEGER, "document-number",
              (int)docnum);

if ((tempfd = cupsTempFd(TempFile, sizeof(TempFile))) == -1)
{
    _cupsLangPrintError(_("ERROR: Unable to create temporary file"));
    httpClose(http);
    exit(1);
}

signal(SIGTERM, sighandler);

ippDelete(cupsDoIORequest(http, request, "/", -1, tempfd));

close(tempfd);

httpClose(http);

if (cupsLastError() != IPP_OK)
{
    _cupsLangPrintf(stderr, _("cupsfilter: Unable to get job file - %s\n"),
                    cupsLastErrorString());
    unlink(TempFile);
    exit(1);
}
}

```



```

/*
 * 'open_pipe()' - Create a pipe which is closed on exec.
 */

static int /* O - 0 on success, -1 on error */
open_pipe(int *fds) /* O - Pipe file descriptors (2) */
{
/*
 * Create the pipe...
 */

if (pipe(fds))
{
    fds[0] = -1;
    fds[1] = -1;

    return (-1);
}

/*
 * Set the "close on exec" flag on each end of the pipe...
 */

if (fcntl(fds[0], F_SETFD, fcntl(fds[0], F_GETFD) | FD_CLOEXEC))
{
    close(fds[0]);
    close(fds[1]);

    fds[0] = -1;
    fds[1] = -1;

    return (-1);
}

if (fcntl(fds[1], F_SETFD, fcntl(fds[1], F_GETFD) | FD_CLOEXEC))
{
    close(fds[0]);
    close(fds[1]);

    fds[0] = -1;
    fds[1] = -1;

    return (-1);
}

/*

```

```

* Return 0 indicating success...
*/

return (0);
}

/*
* 'read_cupsd_conf()' - Read the cupsd.conf file to get the filter settings.
*/

static int /* O - 0 on success, 1 on error */
read_cupsd_conf(const char *filename) /* I - File to read */
{
    cups_file_t *fp; /* cupsd.conf file */
    const char *temp; /* Temporary string */
    char line[1024], /* Line from file */
        *ptr; /* Pointer into line */
    int linenum; /* Current line number */

    if ((temp = getenv("CUPS_DATADIR")) != NULL)
        set_string(&DataDir, temp);
    else
        set_string(&DataDir, CUPS_DATADIR);

    if ((temp = getenv("CUPS_FONTPATH")) != NULL)
        set_string(&FontPath, temp);
    else
        set_string(&FontPath, CUPS_FONTPATH);

    set_string(&RIPCcache, "8m");

    if ((temp = getenv("CUPS_SERVERBIN")) != NULL)
        set_string(&ServerBin, temp);
    else
        set_string(&ServerBin, CUPS_SERVERBIN);

    strcpy(line, filename, sizeof(line));
    if ((ptr = strrchr(line, '/')) != NULL)
        *ptr = '\0';
    else
        getcwd(line, sizeof(line));

    set_string(&ServerRoot, line);

    if ((fp = cupsFileOpen(filename, "r")) != NULL)
    {

```

```

linenum = 0;

while (cupsFileGetConf(fp, line, sizeof(line), &ptr, &linenum))
{
    if (!strcasecmp(line, "DataDir"))
        set_string(&DataDir, ptr);
    else if (!strcasecmp(line, "FontPath"))
        set_string(&FontPath, ptr);
    else if (!strcasecmp(line, "RIPCache"))
        set_string(&RIPCache, ptr);
    else if (!strcasecmp(line, "ServerBin"))
        set_string(&ServerBin, ptr);
    else if (!strcasecmp(line, "ServerRoot"))
        set_string(&ServerRoot, ptr);
}

cupsFileClose(fp);
}

snprintf(line, sizeof(line),
         "%s/filter:" CUPS_BINDIR ":" CUPS_SBINDIR ":/bin:/usr/bin",
         ServerBin);
set_string(&Path, line);

return (0);
}

/*
 * 'set_string()' - Copy and set a string.
 */

static void
set_string(char    **s, /* O - Copy of string */
           const char *val) /* I - String to copy */
{
    if (*s)
        free(*s);

    *s = strdup(val);
}

/*
 * 'sighandler()' - Signal catcher for when we print from stdin...
 */

static void

```

```

sighandler(int s) /* I - Signal number */
{
/*
* Remove the temporary file we're using to print a job file...
*/

if (TempFile[0])
    unlink(TempFile);

/*
* Exit...
*/

exit(s);
}

/*
* 'usage()' - Show program usage...
*/

static void
usage(const char *command, /* I - Command name */
      const char *opt) /* I - Incorrect option, if any */
{
if (opt)
    _cupsLangPrintf(stderr, _("%s: Unknown option '%c!'\n"), command, *opt);

if (!strcmp(command, "cupsfilter"))
    _cupsLangPuts(stdout,
    _("Usage: cupsfilter -m mime/type [ options ] filename\n"
    "\n"
    "Options:\n"
    "\n"
    " -c cupsd.conf  Set cupsd.conf file to use\n"
    " -e            Use every filter from the PPD file\n"
    " -j job-id[,N]  Filter file N from the specified job (default is file 1)\n"
    " -n copies     Set number of copies\n"
    " -o name=value  Set option(s)\n"
    " -p filename.ppd Set PPD file\n"
    " -t title      Set title\n"));
else
    _cupsLangPuts(stdout,
    _("Usage: convert [ options ]\n"
    "\n"
    "Options:\n"
    "\n"
    " -e            Use every filter from the PPD file\n"

```

```

" -f filename      Set file to be converted (otherwise stdin)\n"
" -o filename      Set file to be generated (otherwise stdout)\n"
" -i mime/type     Set input MIME type (otherwise auto-typed)\n"
" -j mime/type     Set output MIME type (otherwise application/pdf)\n"
" -P filename.ppd  Set PPD file\n"
" -a 'name=value ...' Set option(s)\n"
" -U username      Set username for job\n"
" -J title         Set title\n"
" -c copies        Set number of copies\n"
" -u              Remove the PPD file when finished\n"
" -D              Remove the input file when finished\n");

exit(1);
}

/*
 * End of "$Id: cupsfilter.c 8700 2009-06-05 21:38:52Z mike $".
 */
</TD></TR>
<TR><TD>&nbsp;</TD></TR>
<TR><TD CLASS="trailer">CUPS and the CUPS logo are trademarks of
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</TABLE>
</BODY>
</HTML>

```

1.47 cups-libs 1.4.2 :78.el6_9

1.47.1 Available under license :

```

<HTML>
<!-- SECTION: Getting Started -->
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```

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

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59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General

Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.48 curl 7.19.7 :53.el6_9

1.48.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original

BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libpgp-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

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c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far

(kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS <http://www.gnu.org/software/gss/>

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

[3] = LGPL - GNU Lesser General Public License:
<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:
<http://www.mozilla.org/MPL/>

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1.49 cyrus-sasl 2.1.23 :15.el6_6.2

1.49.1 Available under license :

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/* CMU libsasl

* Tim Martin

* Rob Earhart

* Rob Siemborski

*/

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.\"
.TH sasl_getsimple_t "10 July 2001" SASL "SASL man pages"
.SH NAME
sasl_getsimple_t \- The SASL callback for username/authname/realm
/* sample-server.c -- sample SASL server
* Rob Earhart
* $Id: sample-server.c,v 1.31 2004/10/26 11:14:34 mel Exp $
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1.51 dash 0.5.5.1 :4.e16

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/*

* Termios command line History and Editing for NetBSD sh (ash)

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* Main code: Adam Rogoyski <rogoyski@cs.utexas.edu>

* Etc: Dave Cinege <dcinege@psychosis.com>

*

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*

* v 0.5 19990328 Initial release

*

* Future plans: Simple file and path name completion. (like BASH)

*

*/

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1.53 Data Mapper for Jackson 1.9.2

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- * Reading (parsing) and writing (generation) of Json content
- * Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- * Support for converting to/from other data formats and access APIs,

to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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1.54 Data Mapper for Jackson 1.8.6

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```
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1.55 db4 4.7.25 :22.e16

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```

```
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```

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all: ${BUILD}
```

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<html>
```

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<head>
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<title>Berkeley DB: Berkeley DB Product License</title>
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<meta name="description" content="Berkeley DB: An embedded database programmatic toolkit.">
```

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<meta name="keywords"
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</html>
/*-
* $Id: LICENSE,v 12.9 2008/02/07 17:12:17 mark Exp $
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1.58 dbus 1.2.24 :8.e16_6

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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```

```
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.63 dhclient 4.1.1 :53.P1.el6.centos.1

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1.68 dracut 004 :409.el6_8.2

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1.69 dracut-kernel 004-409 :el6_8.2

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```
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```

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```

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```
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```

```
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1.70 e2fsprogs 1.41.12 :23.el6

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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23-June-2007

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1.71 e2fsprogs-libs 1.41.12 :23.el6

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Theodore Ts'o
23-June-2007

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```
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```

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Also add information on how to contact you by electronic and paper mail.

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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<one line to give the library's name and a brief idea of what it does.>  
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```

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```

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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

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```
/*
```

```
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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
- + Copyright (C) Andrew Tridgell 1999-2005
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Gadi Oxman, August 1995

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.72 efibootmgr 0.5.4 :15.el6

1.73 eggdbus 0.6 :3.el6

1.73.1 Available under license :

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.74 elfutils 0.161 :3.el6

1.74.1 Available under license :

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Version 3, 29 June 2007

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1.77 elfutils-libs 0.161 :3.e16

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Version 3, 29 June 2007

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.90 gamin 0.1.10 :9.e16

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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distribute this file as part of a program that contains a
configuration script generated by Autoconf, you may include it under
the same distribution terms that you use for the rest of that program.

Originally written by Per Bothner <per@bothner.com>.
Please send patches to <config-patches@gnu.org>. Submit a context
diff and a properly formatted ChangeLog entry.

This script attempts to guess a canonical system name similar to
config.sub. If it succeeds, it prints the system name on stdout, and
exits with 0. Otherwise, it exits with 1.

The plan is that this can be called by configure scripts if you
don't specify an explicit build system type.
/*
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*/

1.91 gawk 3.1.7 :10.el6_7.3

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Version 2, June 1991

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<one line to give the program's name and a brief idea of what it does.>

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```
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```

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.92 gcc 4.4.7 :2012-03-13 Release Manager

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.93 GConf2 2.28.0 :7.e16

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concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.94 gdbm 1.8.0 :39.el6

1.94.1 Available under license :

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Version 2, June 1991

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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<signature of Ty Coon>, 1 April 1989
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1.95 giflib 4.1.6 :3.1.e16

1.95.1 Available under license :

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1.96 glib 2.27.1

1.96.1 Available under license :

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Version 2, June 1991

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to

permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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1.100 gmp 4.3.1 :12.e16

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```
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@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@unnumberedsec How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@smallexample

@var{program} Copyright (C) @var{year} @var{name of author}

This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.

This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.

@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

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@end enumerate

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Version 3, 29 June 2007

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```
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Version 2.1, February 1999

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@c End:
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a

fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.105 grep 2.20 :6.e16

1.105.1 Available under license :

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an

implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This

License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.109 Gson 2.2.2

1.109.1 Available under license :

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1.110 gstreamer 0.10.35.1

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Version 2, June 1991

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

<sect1 id="chapter-legal">

<title id="title-legal">GStreamer Legal Issues</title>

<para>

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the <ulink url="http://www.fsf.org/">FSF lawyers</ulink>, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by <ulink url="http://www.fluendo.com/">Fluendo</ulink> in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

</para>

<qandaset defaultlabel="qanda">

<qandaentry>

<question id="legal-distribute-three">

<para>

Can someone distribute the combination of

<itemizedlist>

<listitem><para>GStreamer, the LGPL library</para></listitem>

<listitem><para>MyPlayer, a GPL playback application</para></listitem>

<listitem><para>The binary-only Sorenson decoder</para></listitem>

</itemizedlist>

together in one distribution/operating system ? If not, what needs to be changed to make this possible ?

</para>

</question>

<answer>

<para>

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

</para>

<para>

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

</para>

<para>

Note: MyPlayer is a completely fictitious application at the time of writing.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-binary-plugin">

<para>

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above.

Can Apple distribute this binary-only plugin ?

</para>

</question>

<answer>

<para>

Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

</para>
</answer>
</qandaentry>

<qandaentry>
<question id="legal-gpl-program">
<para>

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in ?

</para>
</question>

<answer>
<para>

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

</para>
</answer>
</qandaentry>

<qandaentry>
<question id="legal-safe-countries">
<para>

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway ? If he/she visits the US, can he/she be arrested ?

</para>
</question>

<answer>
<para>

Yes, he can.
No, there are no criminal penalties for patent infringement in the US.

</para>
</answer>
</qandaentry>

<qandaentry>
<question id="legal-unsafe-countries">
<para>

Can someone from the US distribute software covered by US patents under the GPL to people in Norway ? To people in the US ?

</para>
</question>

<answer>

<para>

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-library-patents">

<para>

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project ?

</para>

</question>

<answer>

<para>

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

</para>

<para>

The GPL and LGPL say (sections 7 and 11):

<quote>If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.</quote>

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-court-judgment">

<para>

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents ?

</para>

</question>

<answer>

<para>

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-and-binary">

<para>

Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library.

Does this affect the licensing issues involved in regards to GPL/LGPL?

</para>

</question>

<answer>

<para>

No.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-patent-distribution">

<para>

Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3 ?

</para>

</question>

<answer>

<para>

The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.

</para>

<para>

If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.

</para>

```

</answer>
</qandaentry>
</qandaset>
</sect1>
/* GStreamer
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
*
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
*      2000 Wim Taymans <wtay@chello.be>
*
* gstpadtemplate.c: Templates for pad creation
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
*
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
/**
* SECTION:gstpadtemplate
* @short_description: Describe the media type of a pad.
* @see_also: #GstPad, #GstElementFactory

```

```

*
* Padtemplates describe the possible media types a pad or an elementfactory can
* handle. This allows for both inspection of handled types before loading the
* element plugin as well as identifying pads on elements that are not yet
* created (request or sometimes pads).
*
* Pad and PadTemplates have #GstCaps attached to it to describe the media type
* they are capable of dealing with. gst_pad_template_get_caps() or
* GST_PAD_TEMPLATE_CAPS() are used to get the caps of a padtemplate. It's not
* possible to modify the caps of a padtemplate after creation.
*
* PadTemplates have a #GstPadPresence property which identifies the lifetime
* of the pad and that can be retrieved with GST_PAD_TEMPLATE_PRESENCE(). Also
* the direction of the pad can be retrieved from the #GstPadTemplate with
* GST_PAD_TEMPLATE_DIRECTION().
*
* The GST_PAD_TEMPLATE_NAME_TEMPLATE () is important for GST_PAD_REQUEST pads
* because it has to be used as the name in the gst_element_get_request_pad()
* call to instantiate a pad from this template.
*
* Padtemplates can be created with gst_pad_template_new() or with
* gst_static_pad_template_get (), which creates a #GstPadTemplate from a
* #GstStaticPadTemplate that can be filled with the
* convenient GST_STATIC_PAD_TEMPLATE() macro.
*
* A padtemplate can be used to create a pad (see gst_pad_new_from_template()
* or gst_pad_new_from_static_template ()) or to add to an element class
* (see gst_element_class_add_pad_template ()).
*
* The following code example shows the code to create a pad from a padtemplate.
* <example>
* <title>Create a pad from a padtemplate</title>
* <programlisting>
* GstStaticPadTemplate my_template =
* GST_STATIC_PAD_TEMPLATE (
* "sink", // the name of the pad
* GST_PAD_SINK, // the direction of the pad
* GST_PAD_ALWAYS, // when this pad will be present
* GST_STATIC_CAPS ( // the capabilities of the padtemplate
* "audio/x-raw-int, "
* "channels = (int) [ 1, 6 ]"
* )
* );
* void
* my_method (void)
* {
* GstPad *pad;
* pad = gst_pad_new_from_static_template (&my_template, "sink");

```

```

* ...
* }
* </programlisting>
* </example>
*
* The following example shows you how to add the padtemplate to an
* element class, this is usually done in the base_init of the class:
* <informalexample>
* <programlisting>
* static void
* my_element_base_init (gpointer g_class)
* {
*   GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);
*
*   gst_element_class_add_pad_template (gstelement_class,
*   gst_static_pad_template_get (&my_template));
* }
* </programlisting>
* </informalexample>
*
* Last reviewed on 2006-02-14 (0.10.3)
*/

```

```
#include "gst_private.h"
```

```
#include "gstpad.h"
```

```
#include "gstpadtemplate.h"
```

```
#include "gstenumtypes.h"
```

```
#include "gstmarshal.h"
```

```
#include "gstutils.h"
```

```
#include "gstinfo.h"
```

```
#include "gsterror.h"
```

```
#include "gstvalue.h"
```

```
#define GST_CAT_DEFAULT GST_CAT_PADS
```

```
enum
```

```
{
  PROP_NAME_TEMPLATE = 1,
  PROP_DIRECTION,
  PROP_PRESENCE,
  PROP_CAPS
};
```

```
enum
```

```
{
  TEMPL_PAD_CREATED,
  /* FILL ME */
};
```

```

LAST_SIGNAL
};

static GObject *parent_class = NULL;
static guint gst_pad_template_signals[LAST_SIGNAL] = { 0 };

static void gst_pad_template_dispose (GObject * object);
static void gst_pad_template_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec);
static void gst_pad_template_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec);

G_DEFINE_TYPE (GstPadTemplate, gst_pad_template, GST_TYPE_OBJECT);

static void
gst_pad_template_class_init (GstPadTemplateClass * klass)
{
    GObjectClass *gobject_class;
    GstObjectClass *gstobject_class;

    gobject_class = (GObjectClass *) klass;
    gstobject_class = (GstObjectClass *) klass;

    parent_class = g_type_class_peek_parent (klass);

    /**
     * GstPadTemplate::pad-created:
     * @pad_template: the object which received the signal.
     * @pad: the pad that was created.
     *
     * This signal is fired when an element creates a pad from this template.
     */
    gst_pad_template_signals[TEMPL_PAD_CREATED] =
        g_signal_new ("pad-created", G_TYPE_FROM_CLASS (klass), G_SIGNAL_RUN_LAST,
            G_STRUCT_OFFSET (GstPadTemplateClass, pad_created),
            NULL, NULL, gst_marshall_VOID__OBJECT, G_TYPE_NONE, 1, GST_TYPE_PAD);

    gobject_class->dispose = gst_pad_template_dispose;

    gobject_class->get_property = gst_pad_template_get_property;
    gobject_class->set_property = gst_pad_template_set_property;

    /**
     * GstPadTemplate: name-template
     *
     * The name template of the pad template.
     *
     * Since: 0.10.21

```

```

*/
g_object_class_install_property (gobject_class, PROP_NAME_TEMPLATE,
    g_param_spec_string ("name-template", "Name template",
        "The name template of the pad template", NULL,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**
 * GstPadTemplate:direction
 *
 * The direction of the pad described by the pad template.
 *
 * Since: 0.10.21
 */
g_object_class_install_property (gobject_class, PROP_DIRECTION,
    g_param_spec_enum ("direction", "Direction",
        "The direction of the pad described by the pad template",
        GST_TYPE_PAD_DIRECTION, GST_PAD_UNKNOWN,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**
 * GstPadTemplate:presence
 *
 * When the pad described by the pad template will become available.
 *
 * Since: 0.10.21
 */
g_object_class_install_property (gobject_class, PROP_PRESENCE,
    g_param_spec_enum ("presence", "Presence",
        "When the pad described by the pad template will become available",
        GST_TYPE_PAD_PRESENCE, GST_PAD_ALWAYS,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**
 * GstPadTemplate:caps
 *
 * The capabilities of the pad described by the pad template.
 *
 * Since: 0.10.21
 */
g_object_class_install_property (gobject_class, PROP_CAPS,
    g_param_spec_boxed ("caps", "Caps",
        "The capabilities of the pad described by the pad template",
        GST_TYPE_CAPS,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

gstobject_class->path_string_separator = "*";
}

```

```

static void
gst_pad_template_init (GstPadTemplate * templ)
{
    /* FIXME 0.11: Does anybody remember why this is here? If not, let's
     * change it for 0.11 and let gst_element_class_add_pad_template() for
     * example ref/sink the pad templates.
     */
    /* We ensure that the pad template we're creating has a sunken reference.
     * Inconsistencies in pad templates being floating or sunken has caused
     * problems in the past with leaks, etc.
     *
     * For consistency, then, we only produce them with sunken references
     * owned by the creator of the object
     */
    if (GST_OBJECT_IS_FLOATING (templ)) {
        gst_object_ref_sink (templ);
    }
}

static void
gst_pad_template_dispose (GObject * object)
{
    GstPadTemplate *templ = GST_PAD_TEMPLATE (object);

    g_free (GST_PAD_TEMPLATE_NAME_TEMPLATE (templ));
    if (GST_PAD_TEMPLATE_CAPS (templ)) {
        gst_caps_unref (GST_PAD_TEMPLATE_CAPS (templ));
    }

    G_OBJECT_CLASS (parent_class)->dispose (object);
}

/* ALWAYS padtemplates cannot have conversion specifications (like src_%d),
 * since it doesn't make sense.
 * SOMETIMES padtemplates can do whatever they want, they are provided by the
 * element.
 * REQUEST padtemplates can be reverse-parsed (the user asks for 'sink1', the
 * 'sink%d' template is automatically selected), so we need to restrict their
 * naming.
 */
static gboolean
name_is_valid (const gchar * name, GstPadPresence presence)
{
    const gchar *str;

    if (presence == GST_PAD_ALWAYS) {
        if (strchr (name, '%')) {
            g_warning ("invalid name template %s: conversion specifications are not"

```

```

    " allowed for GST_PAD_ALWAYS padtemplates", name);
return FALSE;
}
} else if (presence == GST_PAD_REQUEST) {
if ((str = strchr (name, '%')) && strchr (str + 1, '%')) {
    g_warning ("invalid name template %s: only one conversion specification"
        " allowed in GST_PAD_REQUEST padtemplate", name);
return FALSE;
}
if (str && (*(str + 1) != 's' && *(str + 1) != 'd' && *(str + 1) != 'u')) {
    g_warning ("invalid name template %s: conversion specification must be of"
        " type '%d', '%u' or '%s' for GST_PAD_REQUEST padtemplate", name);
return FALSE;
}
if (str && *(str + 2) != '\0') {
    g_warning ("invalid name template %s: conversion specification must"
        " appear at the end of the GST_PAD_REQUEST padtemplate name", name);
return FALSE;
}
}
}

return TRUE;
}

```

GType

```
gst_static_pad_template_get_type (void)
```

```
{
```

```
static GType staticpadtemplate_type = 0;
```

```
if (G_UNLIKELY (staticpadtemplate_type == 0)) {
```

```
staticpadtemplate_type =
```

```
g_pointer_type_register_static ("GstStaticPadTemplate");
```

```
}
```

```
return staticpadtemplate_type;
```

```
}
```

```
/**
```

```
* gst_static_pad_template_get:
```

```
* @pad_template: the static pad template
```

```
*
```

```
* Converts a #GstStaticPadTemplate into a #GstPadTemplate.
```

```
*
```

```
* Returns: (transfer full): a new #GstPadTemplate.
```

```
*/
```

```
/* FIXME0.11: rename to gst_pad_template_new_from_static_pad_template() */
```

```
GstPadTemplate *
```

```
gst_static_pad_template_get (GstStaticPadTemplate * pad_template)
```

```
{
```



```

GstPadTemplate *new;
GstCaps *caps;

if (!name_is_valid (pad_template->name_template, pad_template->presence))
    return NULL;

caps = gst_static_caps_get (&pad_template->static_caps);

new = g_object_new (gst_pad_template_get_type (),
    "name", pad_template->name_template,
    "name-template", pad_template->name_template,
    "direction", pad_template->direction,
    "presence", pad_template->presence, "caps", caps, NULL);

gst_caps_unref (caps);

return new;
}

/**
 * gst_pad_template_new:
 * @name_template: the name template.
 * @direction: the #GstPadDirection of the template.
 * @presence: the #GstPadPresence of the pad.
 * @caps: (transfer full): a #GstCaps set for the template. The caps are
 *   taken ownership of.
 *
 * Creates a new pad template with a name according to the given template
 * and with the given arguments. This functions takes ownership of the provided
 * caps, so be sure to not use them afterwards.
 *
 * Returns: (transfer full): a new #GstPadTemplate.
 */
GstPadTemplate *
gst_pad_template_new (const gchar * name_template,
    GstPadDirection direction, GstPadPresence presence, GstCaps * caps)
{
    GstPadTemplate *new;

    g_return_val_if_fail (name_template != NULL, NULL);
    g_return_val_if_fail (caps != NULL, NULL);
    g_return_val_if_fail (direction == GST_PAD_SRC
        || direction == GST_PAD_SINK, NULL);
    g_return_val_if_fail (presence == GST_PAD_ALWAYS
        || presence == GST_PAD_SOMETIMES || presence == GST_PAD_REQUEST, NULL);

    if (!name_is_valid (name_template, presence)) {
        gst_caps_unref (caps);

```

```

    return NULL;
}

new = g_object_new (gst_pad_template_get_type (),
    "name", name_template, "name-template", name_template,
    "direction", direction, "presence", presence, "caps", caps, NULL);

gst_caps_unref (caps);

return new;
}

/**
 * gst_static_pad_template_get_caps:
 * @templ: a #GstStaticPadTemplate to get capabilities of.
 *
 * Gets the capabilities of the static pad template.
 *
 * Returns: (transfer full): the #GstCaps of the static pad template.
 * Unref after usage. Since the core holds an additional
 * ref to the returned caps, use gst_caps_make_writable()
 * on the returned caps to modify it.
 */
GstCaps *
gst_static_pad_template_get_caps (GstStaticPadTemplate * templ)
{
    g_return_val_if_fail (templ, NULL);

    return (GstCaps *) gst_static_caps_get (&templ->static_caps);
}

/**
 * gst_pad_template_get_caps:
 * @templ: a #GstPadTemplate to get capabilities of.
 *
 * Gets the capabilities of the pad template.
 *
 * Returns: (transfer none): the #GstCaps of the pad template. If you need to
 * keep a reference to the caps, take a ref (see gst_caps_ref ()).
 */
GstCaps *
gst_pad_template_get_caps (GstPadTemplate * templ)
{
    g_return_val_if_fail (GST_IS_PAD_TEMPLATE (templ), NULL);

    return GST_PAD_TEMPLATE_CAPS (templ);
}

```

```

/**
 * gst_pad_template_pad_created:
 * @templ: a #GstPadTemplate that has been created
 * @pad: the #GstPad that created it
 *
 * Emit the pad-created signal for this template when created by this pad.
 */
void
gst_pad_template_pad_created (GstPadTemplate * templ, GstPad * pad)
{
    g_signal_emit (templ, gst_pad_template_signals[TEMPL_PAD_CREATED], 0, pad);
}

static void
gst_pad_template_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    /* these properties are all construct-only */
    switch (prop_id) {
        case PROP_NAME_TEMPLATE:
            GST_PAD_TEMPLATE_NAME_TEMPLATE (object) = g_value_dup_string (value);
            break;
        case PROP_DIRECTION:
            GST_PAD_TEMPLATE_DIRECTION (object) =
                (GstPadDirection) g_value_get_enum (value);
            break;
        case PROP_PRESENCE:
            GST_PAD_TEMPLATE_PRESENCE (object) =
                (GstPadPresence) g_value_get_enum (value);
            break;
        case PROP_CAPS:
            /* allow caps == NULL for backwards compatibility (ie. g_object_new()
             * called without any of the new properties) (FIXME 0.11) */
            if (g_value_get_boxed (value) != NULL) {
                GST_PAD_TEMPLATE_CAPS (object) =
                    gst_caps_copy (g_value_get_boxed (value));
            }
            break;
        default:
            G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}

static void
gst_pad_template_get_property (GObject * object, guint prop_id, GValue * value,
    GParamSpec * pspec)
{

```

```

/* these properties are all construct-only */
switch (prop_id) {
case PROP_NAME_TEMPLATE:
    g_value_set_string (value, GST_PAD_TEMPLATE_NAME_TEMPLATE (object));
    break;
case PROP_DIRECTION:
    g_value_set_enum (value, GST_PAD_TEMPLATE_DIRECTION (object));
    break;
case PROP_PRESENCE:
    g_value_set_enum (value, GST_PAD_TEMPLATE_PRESENCE (object));
    break;
case PROP_CAPS:
    g_value_set_boxed (value, GST_PAD_TEMPLATE_CAPS (object));
    break;
default:
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
*      2000 Wim Taymans <wim.taymans@chello.be>
*
* gstpadtemplate.h: Header for GstPadTemplate object
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
*
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

#ifndef __GST_PAD_TEMPLATE_H__
#define __GST_PAD_TEMPLATE_H__

#include <gst/gstconfig.h>

#include <gst/gstobject.h>

```

```

#include <gst/gstbuffer.h>
#include <gst/gstcaps.h>
#include <gst/gstevent.h>
#include <gst/gstquery.h>
#include <gst/gsttask.h>

G_BEGIN_DECLS

/* FIXME: this awful circular dependency need to be resolved properly (see pad.h) */
/*typedef struct _GstPadTemplate GstPadTemplate; */
typedef struct _GstPadTemplateClass GstPadTemplateClass;
typedef struct _GstStaticPadTemplate GstStaticPadTemplate;

#define GST_TYPE_STATIC_PAD_TEMPLATE (gst_static_pad_template_get_type ())

#define GST_TYPE_PAD_TEMPLATE (gst_pad_template_get_type ())
#define GST_PAD_TEMPLATE(obj) (G_TYPE_CHECK_INSTANCE_CAST ((obj),
GST_TYPE_PAD_TEMPLATE,GstPadTemplate))
#define GST_PAD_TEMPLATE_CLASS(klass) (G_TYPE_CHECK_CLASS_CAST ((klass),
GST_TYPE_PAD_TEMPLATE,GstPadTemplateClass))
#define GST_IS_PAD_TEMPLATE(obj) (G_TYPE_CHECK_INSTANCE_TYPE ((obj),
GST_TYPE_PAD_TEMPLATE))
#define GST_IS_PAD_TEMPLATE_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE ((klass),
GST_TYPE_PAD_TEMPLATE))

/**
 * GstPadPresence:
 * @GST_PAD_ALWAYS: the pad is always available
 * @GST_PAD_SOMETIMES: the pad will become available depending on the media stream
 * @GST_PAD_REQUEST: the pad is only available on request with
 * gst_element_get_request_pad().
 *
 * Indicates when this pad will become available.
 */
typedef enum {
    GST_PAD_ALWAYS,
    GST_PAD_SOMETIMES,
    GST_PAD_REQUEST
} GstPadPresence;

/**
 * GST_PAD_TEMPLATE_NAME_TEMPLATE:
 * @templ: the template to query
 *
 * Get the nametemplate of the padtemplate.
 */
#define GST_PAD_TEMPLATE_NAME_TEMPLATE(templ) (((GstPadTemplate *) (templ))->name_template)

```

```

/**
 * GST_PAD_TEMPLATE_DIRECTION:
 * @templ: the template to query
 *
 * Get the #GstPadDirection of the padtemplate.
 */
#define GST_PAD_TEMPLATE_DIRECTION(templ) (((GstPadTemplate *) (templ))->direction)

/**
 * GST_PAD_TEMPLATE_PRESENCE:
 * @templ: the template to query
 *
 * Get the #GstPadPresence of the padtemplate.
 */
#define GST_PAD_TEMPLATE_PRESENCE(templ) (((GstPadTemplate *) (templ))->presence)

/**
 * GST_PAD_TEMPLATE_CAPS:
 * @templ: the template to query
 *
 * Get a handle to the padtemplate #GstCaps
 */
#define GST_PAD_TEMPLATE_CAPS(templ) (((GstPadTemplate *) (templ))->caps)

/**
 * GstPadTemplateFlags:
 * @GST_PAD_TEMPLATE_FIXED: the padtemplate has no variable properties
 * @GST_PAD_TEMPLATE_FLAG_LAST: first flag that can be used by subclasses.
 *
 * Flags for the padtemplate
 */
typedef enum {
    /* FIXME0.11: this is not used and the purpose is unclear */
    GST_PAD_TEMPLATE_FIXED    = (GST_OBJECT_FLAG_LAST << 0),
    /* padding */
    GST_PAD_TEMPLATE_FLAG_LAST = (GST_OBJECT_FLAG_LAST << 4)
} GstPadTemplateFlags;

/**
 * GST_PAD_TEMPLATE_IS_FIXED:
 * @templ: the template to query
 *
 * Check if the properties of the padtemplate are fixed
 */
#define GST_PAD_TEMPLATE_IS_FIXED(templ) (GST_OBJECT_FLAG_IS_SET(templ,
GST_PAD_TEMPLATE_FIXED))

/**

```

```

* GstPadTemplate:
*
* The padtemplate object.
*/
struct _GstPadTemplate {
    GObject    object;

    gchar      *name_template;
    GstPadDirection direction;
    GstPadPresence presence;
    GstCaps    *caps;

    gpointer _gst_reserved[GST_PADDING];
};

struct _GstPadTemplateClass {
    GObjectClass parent_class;

    /* signal callbacks */
    void (*pad_created) (GstPadTemplate *templ, GstPad *pad);

    gpointer _gst_reserved[GST_PADDING];
};

/**
 * GstStaticPadTemplate:
 * @name_template: the name of the template
 * @direction: the direction of the template
 * @presence: the presence of the template
 * @static_caps: the caps of the template.
 *
 * Structure describing the #GstStaticPadTemplate.
 */
struct _GstStaticPadTemplate {
    const gchar *name_template;
    GstPadDirection direction;
    GstPadPresence presence;
    GstStaticCaps static_caps;
};

/**
 * GST_STATIC_PAD_TEMPLATE:
 * @padname: the name template of the pad
 * @dir: the GstPadDirection of the pad
 * @pres: the GstPadPresence of the pad
 * @caps: the GstStaticCaps of the pad
 *
 * Convenience macro to fill the values of a GstStaticPadTemplate

```

```

* structure.
*/
#define GST_STATIC_PAD_TEMPLATE(padname, dir, pres, caps) \
{ \
/* name_template */ padname, \
/* direction */ dir, \
/* presence */ pres, \
/* caps */ caps \
}

/* templates and factories */
GType gst_pad_template_get_type (void);
GType gst_static_pad_template_get_type (void);

GstPadTemplate* gst_pad_template_new (const gchar *name_template,
    GstPadDirection direction, GstPadPresence presence,
    GstCaps *caps) G_GNUC_MALLOC;

GstPadTemplate * gst_static_pad_template_get (GstStaticPadTemplate *pad_template);
GstCaps* gst_static_pad_template_get_caps (GstStaticPadTemplate *templ);
GstCaps* gst_pad_template_get_caps (GstPadTemplate *templ);

void gst_pad_template_pad_created (GstPadTemplate * templ, GstPad * pad);

G_END_DECLS

#endif /* __GST_PAD_TEMPLATE_H__ */
/*
* Check: a unit test framework for C
* Copyright (C) 2001,2002 Arien Malec
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation; either
* version 2.1 of the License, or (at your option) any later version.
*
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* but WITHOUT ANY WARRANTY; without even the implied warranty of
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* Lesser General Public License for more details.
*
* You should have received a copy of the GNU Lesser General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

#endif CHECK_IMPL_H

```



```

#define CHECK_IMPL_H

/* This header should be included by any module that needs
   to know the implementation details of the check structures
   Include stdio.h & list.h before this header
*/

typedef struct TF {
    TFunc fn;
    int loop_start;
    int loop_end;
    const char *name;
    int signal;
    unsigned char allowed_exit_value;
} TF;

struct Suite {
    const char *name;
    List *tclst; /* List of test cases */
};

typedef struct Fixture
{
    int ischecked;
    SFunc fun;
} Fixture;

struct TCase {
    const char *name;
    int timeout;
    List *tflst; /* list of test functions */
    List *unch_sflst;
    List *unch_tflst;
    List *ch_sflst;
    List *ch_tflst;
};

typedef struct TestStats {
    int n_checked;
    int n_failed;
    int n_errors;
} TestStats;

struct TestResult {
    enum test_result rtype; /* Type of result */
    enum ck_result_ctx ctx; /* When the result occurred */
    char *file; /* File where the test occurred */
}

```

```

int line; /* Line number where the test occurred */
int iter; /* The iteration value for looping tests */
const char *tcname; /* Test case that generated the result */
const char *tname; /* Test that generated the result */
char *msg; /* Failure message */
};

```

```

TestResult *tr_create(void);
void tr_reset(TestResult *tr);

```

```

enum cl_event {
    CLINITLOG_SR,
    CLENDLOG_SR,
    CLSTART_SR,
    CLSTART_S,
    CLEND_SR,
    CLEND_S,
    CLSTART_T, /* A test case is about to run */
    CLEND_T
};

```

```

typedef void (*LFun) (SRunner *, FILE*, enum print_output,
    void *, enum cl_event);

```

```

typedef struct Log {
    FILE *lfile;
    LFun lfun;
    int close;
    enum print_output mode;
} Log;

```

```

struct SRunner {
    List *slst; /* List of Suite objects */
    TestStats *stats; /* Run statistics */
    List *resultlst; /* List of unit test results */
    const char *log_fname; /* name of log file */
    const char *xml_fname; /* name of xml output file */
    List *loglst; /* list of Log objects */
    enum fork_status fstat; /* controls if suites are forked or not
        NOTE: Don't use this value directly,
        instead use srunner_fork_status */
};

```

```

void set_fork_status(enum fork_status fstat);
enum fork_status cur_fork_status (void);

```

```

#endif /* CHECK_IMPL_H */

```

```

/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
*       2000 Wim Taymans <wtay@chello.be>
*       2005 Wim Taymans <wim@fluendo.com>
*       2005 David Schleef <ds@schleef.org>
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
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* version 2 of the License, or (at your option) any later version.
*
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*
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
/**
* SECTION:element-capsfilter
*
* The element does not modify data as such, but can enforce limitations on the
* data format.
*
* <refsect2>
* <title>Example launch line</title>
* |[
* gst-launch videotestsrc ! video/x-raw-gray ! ffmpegcolorspace ! autovideosink
* ]| Limits acceptable video from videotestsrc to be grayscale.
* </refsect2>
*/

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include "../gst/gst-i18n-lib.h"
#include "gstcapsfilter.h"

enum
{
    PROP_0,
    PROP_FILTER_CAPS
};

```

```
static GstStaticPadTemplate sinktemplate = GST_STATIC_PAD_TEMPLATE ("sink",
    GST_PAD_SINK,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS_ANY);
```

```
static GstStaticPadTemplate srctemplate = GST_STATIC_PAD_TEMPLATE ("src",
    GST_PAD_SRC,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS_ANY);
```

```
GST_DEBUG_CATEGORY_STATIC (gst_capsfilter_debug);
#define GST_CAT_DEFAULT gst_capsfilter_debug
```

```
#define _do_init(bla) \
    GST_DEBUG_CATEGORY_INIT (gst_capsfilter_debug, "capsfilter", 0, \
    "capsfilter element");
```

```
GST_BOILERPLATE_FULL (GstCapsFilter, gst_capsfilter, GstBaseTransform,
    GST_TYPE_BASE_TRANSFORM, _do_init);
```

```
static void gst_capsfilter_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec);
static void gst_capsfilter_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec);
static void gst_capsfilter_dispose (GObject * object);
```

```
static GstCaps *gst_capsfilter_transform_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps);
static gboolean gst_capsfilter_accept_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_capsfilter_transform_ip (GstBaseTransform * base,
    GstBuffer * buf);
static GstFlowReturn gst_capsfilter_prepare_buf (GstBaseTransform * trans,
    GstBuffer * input, gint size, GstCaps * caps, GstBuffer ** buf);
```

```
static void
gst_capsfilter_base_init (gpointer g_class)
{
    GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);
```

```
gst_element_class_set_details_simple (gstelement_class,
    "CapsFilter",
    "Generic",
    "Pass data without modification, limiting formats",
    "David Schleef <ds@schleef.org>");
```

```

gst_element_class_add_pad_template (gstelement_class,
    gst_static_pad_template_get (&srctemplate));
gst_element_class_add_pad_template (gstelement_class,
    gst_static_pad_template_get (&sinktemplate));
}

static void
gst_capsfilter_class_init (GstCapsFilterClass * klass)
{
    GObjectClass *gobject_class;
    GstBaseTransformClass *trans_class;

    gobject_class = G_OBJECT_CLASS (klass);
    gobject_class->set_property = gst_capsfilter_set_property;
    gobject_class->get_property = gst_capsfilter_get_property;
    gobject_class->dispose = gst_capsfilter_dispose;

    g_object_class_install_property (gobject_class, PROP_FILTER_CAPS,
        g_param_spec_boxed ("caps", _("Filter caps"),
            _("Restrict the possible allowed capabilities (NULL means ANY). "
                "Setting this property takes a reference to the supplied GstCaps "
                "object."), GST_TYPE_CAPS,
            G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));

    trans_class = GST_BASE_TRANSFORM_CLASS (klass);
    trans_class->transform_caps =
        GST_DEBUG_FUNCPTR (gst_capsfilter_transform_caps);
    trans_class->transform_ip = GST_DEBUG_FUNCPTR (gst_capsfilter_transform_ip);
    trans_class->accept_caps = GST_DEBUG_FUNCPTR (gst_capsfilter_accept_caps);
    trans_class->prepare_output_buffer =
        GST_DEBUG_FUNCPTR (gst_capsfilter_prepare_buf);
}

static void
gst_capsfilter_init (GstCapsFilter * filter, GstCapsFilterClass * g_class)
{
    GstBaseTransform *trans = GST_BASE_TRANSFORM (filter);
    gst_base_transform_set_gap_aware (trans, TRUE);
    filter->filter_caps = gst_caps_new_any ();
}

static gboolean
copy_func (GQuark field_id, const GValue * value, GstStructure * dest)
{
    gst_structure_id_set_value (dest, field_id, value);

    return TRUE;
}

```

```

static void
gst_capsfilter_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (object);

    switch (prop_id) {
    case PROP_FILTER_CAPS:{
        GstCaps *new_caps;
        GstCaps *old_caps, *suggest, *nego;
        const GstCaps *new_caps_val = gst_value_get_caps (value);

        if (new_caps_val == NULL) {
            new_caps = gst_caps_new_any ();
        } else {
            new_caps = (GstCaps *) new_caps_val;
            gst_caps_ref (new_caps);
        }

        GST_OBJECT_LOCK (capsfilter);
        old_caps = capsfilter->filter_caps;
        capsfilter->filter_caps = new_caps;
        GST_OBJECT_UNLOCK (capsfilter);

        gst_caps_unref (old_caps);

        GST_DEBUG_OBJECT (capsfilter, "set new caps %" GST_PTR_FORMAT, new_caps);

        /* filter the currently negotiated format against the new caps */
        GST_OBJECT_LOCK (GST_BASE_TRANSFORM_SINK_PAD (object));
        nego = GST_PAD_CAPS (GST_BASE_TRANSFORM_SINK_PAD (object));
        if (nego) {
            GST_DEBUG_OBJECT (capsfilter, "we had negotiated caps %" GST_PTR_FORMAT,
                nego);

            if (G_UNLIKELY (gst_caps_is_any (new_caps))) {
                GST_DEBUG_OBJECT (capsfilter, "not settings any suggestion");

                suggest = NULL;
            } else {
                GstStructure *s1, *s2;

                /* first check if the name is the same */
                s1 = gst_caps_get_structure (nego, 0);
                s2 = gst_caps_get_structure (new_caps, 0);

                if (gst_structure_get_name_id (s1) == gst_structure_get_name_id (s2)) {

```

```

    /* same name, copy all fields from the new caps into the previously
    * negotiated caps */
    suggest = gst_caps_copy (nego);
    s1 = gst_caps_get_structure (suggest, 0);
    gst_structure_foreach (s2, (GstStructureForeachFunc) copy_func, s1);
    GST_DEBUG_OBJECT (capsfilter, "copied structure fields");
} else {
    GST_DEBUG_OBJECT (capsfilter, "different structure names");
    /* different names, we can only suggest the complete caps */
    suggest = gst_caps_copy (new_caps);
}
}
} else {
    GST_DEBUG_OBJECT (capsfilter, "no negotiated caps");
    /* Suggest the new caps, we can't just rely on _get_caps as this may
    * already be called at this point even though no buffer has been
    * pushed yet */
    suggest = gst_caps_copy (new_caps);
}
GST_OBJECT_UNLOCK (GST_BASE_TRANSFORM_SINK_PAD (object));

GST_DEBUG_OBJECT (capsfilter, "suggesting new caps %" GST_PTR_FORMAT,
    suggest);
gst_base_transform_suggest (GST_BASE_TRANSFORM (object), suggest, 0);
if (suggest)
    gst_caps_unref (suggest);

break;
}
default:
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}

static void
gst_capsfilter_get_property (GObject * object, guint prop_id, GValue * value,
    GParamSpec * pspec)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (object);

    switch (prop_id) {
    case PROP_FILTER_CAPS:
        GST_OBJECT_LOCK (capsfilter);
        gst_value_set_caps (value, capsfilter->filter_caps);
        GST_OBJECT_UNLOCK (capsfilter);
        break;
    default:

```

```

    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}

static void
gst_capsfilter_dispose (GObject * object)
{
    GstCapsFilter *filter = GST_CAPSFILTER (object);

    gst_caps_replace (&filter->filter_caps, NULL);

    G_OBJECT_CLASS (parent_class)->dispose (object);
}

static GstCaps *
gst_capsfilter_transform_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
    GstCaps *ret, *filter_caps;

    GST_OBJECT_LOCK (capsfilter);
    filter_caps = gst_caps_ref (capsfilter->filter_caps);
    GST_OBJECT_UNLOCK (capsfilter);

    ret = gst_caps_intersect (caps, filter_caps);
    GST_DEBUG_OBJECT (capsfilter, "input:  %" GST_PTR_FORMAT, caps);
    GST_DEBUG_OBJECT (capsfilter, "filter:  %" GST_PTR_FORMAT, filter_caps);
    GST_DEBUG_OBJECT (capsfilter, "intersect: %" GST_PTR_FORMAT, ret);

    gst_caps_unref (filter_caps);

    return ret;
}

static gboolean
gst_capsfilter_accept_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
    GstCaps *filter_caps;
    gboolean ret;

    GST_OBJECT_LOCK (capsfilter);
    filter_caps = gst_caps_ref (capsfilter->filter_caps);
    GST_OBJECT_UNLOCK (capsfilter);

```



```

ret = gst_caps_can_intersect (caps, filter_caps);
GST_DEBUG_OBJECT (capsfilter, "can intersect: %d", ret);
if (ret) {
    /* if we can intersect, see if the other end also accepts */
    if (direction == GST_PAD_SRC)
        ret = gst_pad_peer_accept_caps (GST_BASE_TRANSFORM_SINK_PAD (base), caps);
    else
        ret = gst_pad_peer_accept_caps (GST_BASE_TRANSFORM_SRC_PAD (base), caps);
    GST_DEBUG_OBJECT (capsfilter, "peer accept: %d", ret);
}

gst_caps_unref (filter_caps);

return ret;
}

static GstFlowReturn
gst_capsfilter_transform_ip (GstBaseTransform * base, GstBuffer * buf)
{
    /* No actual work here. It's all done in the prepare output buffer
    * func. */
    return GST_FLOW_OK;
}

/* Output buffer preparation... if the buffer has no caps, and
* our allowed output caps is fixed, then give the caps to the
* buffer.
* This ensures that outgoing buffers have caps if we can, so
* that pipelines like:
* gst-launch filesrc location=rawsamples.raw !
*   audio/x-raw-int,width=16,depth=16,rate=48000,channels=2,
*   endianness=4321,signed=(boolean)'true ! alsasink
* will work.
*/
static GstFlowReturn
gst_capsfilter_prepare_buf (GstBaseTransform * trans, GstBuffer * input,
    gint size, GstCaps * caps, GstBuffer ** buf)
{
    GstFlowReturn ret = GST_FLOW_OK;

    if (GST_BUFFER_CAPS (input) != NULL) {
        /* Output buffer already has caps */
        GST_LOG_OBJECT (trans, "Input buffer already has caps (implicitly fixed)");
        /* FIXME : Move this behaviour to basetransform. The given caps are the ones
        * of the source pad, therefore our outgoing buffers should always have
        * those caps. */
        if (GST_BUFFER_CAPS (input) != caps) {
            /* caps are different, make a metadata writable output buffer to set

```

```

* caps */
if (gst_buffer_is_metadata_writable (input)) {
    /* input is writable, just set caps and use this as the output */
    *buf = input;
    gst_buffer_set_caps (*buf, caps);
    gst_buffer_ref (input);
} else {
    GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
    *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
    gst_buffer_set_caps (*buf, caps);
}
} else {
    /* caps are right, just use a ref of the input as the outbuf */
    *buf = input;
    gst_buffer_ref (input);
}
} else {
    /* Buffer has no caps. See if the output pad only supports fixed caps */
    GstCaps *out_caps;

    out_caps = GST_PAD_CAPS (trans->srcpad);

    if (out_caps != NULL) {
        gst_caps_ref (out_caps);
    } else {
        out_caps = gst_pad_get_allowed_caps (trans->srcpad);
        g_return_val_if_fail (out_caps != NULL, GST_FLOW_ERROR);
    }

    out_caps = gst_caps_make_writable (out_caps);
    gst_caps_do_simplify (out_caps);

    if (gst_caps_is_fixed (out_caps) && !gst_caps_is_empty (out_caps)) {
        GST_DEBUG_OBJECT (trans, "Have fixed output caps %"
            GST_PTR_FORMAT " to apply to buffer with no caps", out_caps);
        if (gst_buffer_is_metadata_writable (input)) {
            gst_buffer_ref (input);
            *buf = input;
        } else {
            GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
            *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
        }
        GST_BUFFER_CAPS (*buf) = out_caps;

        if (GST_PAD_CAPS (trans->srcpad) == NULL)
            gst_pad_set_caps (trans->srcpad, out_caps);
    } else {
        gchar *caps_str = gst_caps_to_string (out_caps);

```

```

GST_DEBUG_OBJECT (trans, "Cannot choose caps. Have unfixed output caps %"
    GST_PTR_FORMAT, out_caps);
gst_caps_unref (out_caps);

ret = GST_FLOW_ERROR;
GST_ELEMENT_ERROR (trans, STREAM, FORMAT,
    ("Filter caps do not completely specify the output format"),
    ("Output caps are unfixed: %s", caps_str));
g_free (caps_str);
}
}

return ret;
}
/* GStreamer
 * Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
 *      2000 Wim Taymans <wtay@chello.be>
 *
 * gstidentity.h:
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Library General Public
 * License as published by the Free Software Foundation; either
 * version 2 of the License, or (at your option) any later version.
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 * License along with this library; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

#ifdef __GST_CAPSFILTER_H__
#define __GST_CAPSFILTER_H__

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>

G_BEGIN_DECLS

#define GST_TYPE_CAPSFILTER \

```

```

(gst_capsfilter_get_type())
#define GST_CAPSFILTER(obj) \
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_CAPSFILTER,GstCapsFilter))
#define GST_CAPSFILTER_CLASS(klass) \
(G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_CAPSFILTER,GstCapsFilterClass))
#define GST_IS_CAPSFILTER(obj) \
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_CAPSFILTER))
#define GST_IS_CAPSFILTER_CLASS(klass) \
(G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_CAPSFILTER))

typedef struct _GstCapsFilter GstCapsFilter;
typedef struct _GstCapsFilterClass GstCapsFilterClass;

/**
 * GstCapsFilter:
 *
 * The opaque #GstCapsFilter data structure.
 */
struct _GstCapsFilter {
    GstBaseTransform trans;

    GstCaps *filter_caps;
};

struct _GstCapsFilterClass {
    GstBaseTransformClass trans_class;
};

GType gst_capsfilter_get_type (void);

G_END_DECLS

#endif /* __GST_CAPSFILTER_H__ */

```

1.111 gstreamer-plugins-bad 0.10.22.1

1.111.1 Available under license :

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Version 2, June 1991

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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This library is distributed in the hope that it will be useful,  
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```

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

```
/* GStreamer  
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>  
*  
* This library is free software; you can redistribute it and/or  
* modify it under the terms of the GNU Library General Public
```

- * License as published by the Free Software Foundation; either
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- * This library is distributed in the hope that it will be useful,
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- * License along with this library; if not, write to the
- * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
- * Boston, MA 02111-1307, USA.
- */

Disclaimer: The GStreamer team makes a real effort to make sure that the information in this file is as up-to-date and accurate as possible. However, this file may contain errors and omissions. Some dependant libraries change their licensing from version-to-version and some of the libraries listed here as LGPL were under the GPL license in older releases. Distributions which include GStreamer are responsible for ensuring that plugins are used in accordance with licensing terms and other laws.

GStreamer is developed under the terms of the LGPL (see LICENSE file for details). Some of our plugins however rely on libraries which are available under other licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

a52dec	liba52	(http://liba52.sourceforge.net/)
aasink	aalib	(http://sourceforge.net/projects/aa-project/)
cdparanoia	libcdparanoia	(http://www.xiph.org/paranoia/)
dtsdec	libdts	(http://www.videolan.org/dtsdec.html)
dvdnavsrc	libdvdnav	(http://dvd.sourceforge.net/)
dxr3		(http://dxr3.sourceforge.net/)
icecastsend	libshout	(http://www.icecast.org)
mad	libmad	(http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec	libmpeg2	(http://libmpeg2.sourceforge.net/)
mpeg2enc	libmpeg2enc	(http://mjpeg.sourceforge.net/)
mplex	libmplex	(http://mjpeg.sourceforge.net/)
siddec	libsidplay 1.36	(http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/ , http://sourceforge.net/projects/sidplay2/)
trm	libmusicbrainz	(http://www.musicbrainz.org/)
xine	libxine	(http://xinehq.de/)
xvid	libxvidcore	(http://www.xvid.org/)

Plugins derived from GPL code are as follows:

dvdreadsrc	libdvdread	(http://www.dtek.chalmers.se/groups/dvd/)
monoscope	None	(Algorithm by Ralph Loader, Joerg Walter, Richard Boulton, and Andy Lo A Foe)
rtjpeg	None	(Erik Walthinsen's algorithm)
rtp	None	(http://www.linphone.org/ortp/)
synaesthesia		(http://www.logarithmic.net/pfh/synaesthesia)
system_encode	None	(Algorithm by Chrisoph Moar, Wim Tayman's and Erik Walthinsen)
vbidec	None	(Algorithm by Billy Biggs, Doug Bell, Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

alsa	alsa	(http://alsa-project.org/)
artsdsink	aRts	(http://arts-project.org/)
cacasink	libcaca	(http://sam.zoy.org/projects/libcaca/)
colorspacecs	libcolorspace	
dvdec	libdv	(http://libdv.sourceforge.net/)
esdmon,esdsink	libesd	(ftp.gnome.org/pub/GNOME/stable/sources/esound/)
faac	libfaac	(http://www.audiocoding.com/modules/mydownloads/)
fameenc	libfame	(http://fame.sourceforge.net/)
ffmpeg	ffmpeg	(http://ffmpeg.sourceforge.net/)
gdkpixbuf	GTK+	(http://www.gtk.org/)
gnomevfs	gnome-vfs	(ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/)
gst_arts	aRts	(http://arts-project.org/)
gst1394	libraw1394	(http://www.linux1394.org/)
gstaf	libaudiofile	(http://www.68k.org/~michael/audiofile/)
gstsf	libsndfile	(http://www.mega-nerd.com/libsndfile/)
hermescolorspace	Hermes	(http://www.clanlib.org/hermes/)
kio	KDE	(http://www.kde.org/)
ladspa		(http://www.ladspa.org/)
lame	libmp3lame	(http://lame.sourceforge.net/)
libvisual	libvisual	(http://libvisual.sourceforge.net/)
matroska		(http://www.matroska.org/)
mikmod	libmikmod	(http://mikmod.raphnet.net/)
ossaudio		(http://www.opensound.com/)
qcamsrc		
rfbenc	librfb	
sdlvideosink	libsdl	(http://www.libsdl.org/)
shout2send	libshout2	(http://www.icecast.org)
smoothwave		
swfdec		(http://swfdec.sourceforge.net/)
tarkin		(http://svn.xiph.org/trunk/tarkin/)
textoverlay	pango	(http://www.pango.org/)
dirac		(http://www.bbc.co.uk/rd/projects/dirac/)

effectv (Our ports was relicensed)(<http://effectv.sourceforge.net/>)

musepack (<http://www.musepack.net/>)

kate libtiger (<http://libtiger.googlecode.com/>)

Optional, only for the tiger element

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)

vorbis libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)

gsttheora libtheora (<http://www.theora.org/>)

speex (<http://www.speex.org/>)

flac libFLAC (<http://flac.sourceforge.net/>)

kate libkate (<http://libkate.googlecode.com/>)

Plugins based on libraries with other free licenses:

ximagesink libXv

xvimagesink libXv

- license: MIT X11 / X Consortium license

gsm libgsm

- license MIT license <http://kbs.cs.tu-berlin.de/~jutta/toast.html>

festival (<http://www.cstr.ed.ac.uk/projects/festival/>)

- license: <http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml>

jpeg (<http://www.ijg.org/>)

- license: IJG license

nas (<http://radscan.com/nas.html>)

- license: NAS license

snapshot libpng (<http://www.libpng.org/pub/png/>)

- license: PNG license

mngdec/mngenc libmng (<http://gjuyn.xs4all.nl/libmng>)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (<http://www.divx.com/>)

osxaudio (<http://www.apple.com/macosx/>)

sunaudiosink (<http://www.sun.com/>)

Unsure:

faad libfaad (<http://www.audiocoding.com/>)

faad's license depends on its major version :

- for FAAD1 : it is LGPL

- for FAAD2 : it is GPL

look at these pages for more information on licenses :

<http://www.audiocoding.com/modules/wiki/?page=FAAD2>

<http://www.audiocoding.com/modules/wiki/?page=FAAC>

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

```
/* GStreamer
```

```
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
```

```
* Copyright (C) 2003,2004 David A. Schleefer <ds@schleefer.org>
```

```
*
```

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* modify it under the terms of the GNU Library General Public
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* License as published by the Free Software Foundation; either
```

```
* version 2 of the License, or (at your option) any later version.
```

```
*
```

```
* This library is distributed in the hope that it will be useful,
```

```
* but WITHOUT ANY WARRANTY; without even the implied warranty of
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* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
```

```
* Library General Public License for more details.
```

```
*
```

```
* You should have received a copy of the GNU Library General Public
```

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* License along with this library; if not, write to the
```

```
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
```

```
* Boston, MA 02111-1307, USA.
```

```
*/
```

```
/* Element-Checklist-Version: 5 */
```

```
#ifdef HAVE_CONFIG_H
```

```
#include "config.h"
```

```
#endif
```

```
#include <string.h>
```

```
#include <math.h>
```

```
/*#define DEBUG_ENABLED */
```

```
#include "gstaudiosample.h"
```

```
#include <gst/audio/audio.h>
```

```
GST_DEBUG_CATEGORY_STATIC (audiosample_debug);
```

```
#define GST_CAT_DEFAULT audiosample_debug
```

```
/* Audiosample signals and args */
```

```
enum
```

```
{
```

```
/* FILL ME */
```

```
LAST_SIGNAL
```

```
};
```

```

enum
{
    ARG_0,
    ARG_FILTERLEN
};

#define SUPPORTED_CAPS \
GST_STATIC_CAPS (\
    "audio/x-raw-int, "\
    "rate = (int) [ 1, MAX ], "\
    "channels = (int) [ 1, MAX ], "\
    "endianness = (int) BYTE_ORDER, "\
    "width = (int) 16, "\
    "depth = (int) 16, "\
    "signed = (boolean) true"
#if 0
    /* disabled because it segfaults */
    "audio/x-raw-float, "
    "rate = (int) [ 1, MAX ], "
    "channels = (int) [ 1, MAX ], "
    "endianness = (int) BYTE_ORDER, " "width = (int) 32"
#endif
)

static GstStaticPadTemplate gst_audioresample_sink_template =
    GST_STATIC_PAD_TEMPLATE ("sink",
        GST_PAD_SINK, GST_PAD_ALWAYS, SUPPORTED_CAPS);

static GstStaticPadTemplate gst_audioresample_src_template =
    GST_STATIC_PAD_TEMPLATE ("src",
        GST_PAD_SRC, GST_PAD_ALWAYS, SUPPORTED_CAPS);

static void gst_audioresample_base_init (gpointer g_class);
static void gst_audioresample_class_init (AudioresampleClass * klass);
static void gst_audioresample_init (Audioresample * audioresample);
static void gst_audioresample_dispose (GObject * object);

static void gst_audioresample_chain (GstPad * pad, GstData * _data);

static void gst_audioresample_set_property (GObject * object,
    guint prop_id, const GValue * value, GParamSpec * pspec);
static void gst_audioresample_get_property (GObject * object,
    guint prop_id, GValue * value, GParamSpec * pspec);

static GstElementClass *parent_class = NULL;

/*static guint gst_audioresample_signals[LAST_SIGNAL] = { 0 };*/

```

```

GType audioresample_get_type (void)
{
    static GType audioresample_type = 0;

    if (!audioresample_type)
    {
        static const GTypeInfo audioresample_info = {
            sizeof (AudioresampleClass),
            gst_audioresample_base_init,
            NULL,
            (GClassInitFunc) gst_audioresample_class_init,
            NULL,
            NULL,
            sizeof (Audioresample), 0,
            (GInstanceInitFunc) gst_audioresample_init,};

        audioresample_type =
            g_type_register_static (GST_TYPE_ELEMENT, "Audioresample",
                &audioresample_info, 0);
    }
    return audioresample_type;
}

static void gst_audioresample_base_init (gpointer g_class)
{
    GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);

    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&gst_audioresample_src_template));
    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&gst_audioresample_sink_template));

    gst_element_class_set_details_simple (gstelement_class, "Audio scaler",
        "Filter/Converter/Audio",
        "Resample audio", "David Schleef <ds@schleef.org>");
}

static void gst_audioresample_class_init (AudioresampleClass * klass)
{
    GObjectClass *gobject_class;
    GstElementClass *gstelement_class;

    gobject_class = (GObjectClass *) klass;
    gstelement_class = (GstElementClass *) klass;

    gobject_class->set_property = gst_audioresample_set_property;
    gobject_class->get_property = gst_audioresample_get_property;

```

```

gobject_class->dispose = gst_audioresample_dispose;

g_object_class_install_property (G_OBJECT_CLASS (klass), ARG_FILTERLEN,
    g_param_spec_int ("filter-length", "filter_length", "filter_length",
        0, G_MAXINT, 16,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT | G_PARAM_STATIC_STRINGS));

parent_class = g_type_class_peek_parent (klass);

GST_DEBUG_CATEGORY_INIT (audioresample_debug, "audioresample", 0,
    "audioresample element");
}

static void gst_audioresample_expand_caps (GstCaps * caps)
{
    gint i;

    for (i = 0; i < gst_caps_get_size (caps); i++) {
        GstStructure *structure = gst_caps_get_structure (caps, i);
        const GValue *value;

        value = gst_structure_get_value (structure, "rate");
        if (value == NULL) {
            GST_ERROR ("caps structure doesn't have required rate field");
            return;
        }

        gst_structure_set (structure, "rate", GST_TYPE_INT_RANGE, 1, G_MAXINT, 0);
    }
}

static GstCaps *gst_audioresample_getcaps (GstPad * pad)
{
    Audioresample *audioresample;
    GstCaps *caps;
    GstPad *otherpad;

    audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

    otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad :
        audioresample->srcpad;
    caps = gst_pad_get_allowed_caps (otherpad);

    gst_audioresample_expand_caps (caps);

    return caps;
}

```

```

static GstCaps *gst_audioresample_fixate (GstPad * pad, const GstCaps * caps)
{
    Audioresample *audioresample;
    GstPad *otherpad;
    int rate;
    GstCaps *copy;
    GstStructure *structure;

    audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

    if (pad == audioresample->srcpad) {
        otherpad = audioresample->sinkpad;
        rate = audioresample->i_rate;
    } else
    {
        otherpad = audioresample->srcpad;
        rate = audioresample->o_rate;
    }
    if (!GST_PAD_IS_NEGOTIATING (otherpad))
        return NULL;
    if (gst_caps_get_size (caps) > 1)
        return NULL;

    copy = gst_caps_copy (caps);
    structure = gst_caps_get_structure (copy, 0);
    if (rate) {
        if (gst_structure_fixate_field_nearest_int (structure, "rate", rate)) {
            return copy;
        }
    }
    gst_caps_free (copy);
    return NULL;
}

static GstPadLinkReturn gst_audioresample_link (GstPad * pad,
        const GstCaps * caps)
{
    Audioresample *audioresample;
    GstStructure *structure;
    int rate;
    int channels;
    gboolean ret;
    GstPad *otherpad;

    audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

    otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad :
        audioresample->srcpad;

```

```

    structure = gst_caps_get_structure (caps, 0);
    ret = gst_structure_get_int (structure, "rate", &rate);
    ret &= gst_structure_get_int (structure, "channels", &channels);
if (!ret)
{
    return GST_PAD_LINK_REFUSED;
}

if (gst_pad_is_negotiated (otherpad))
{
    GstCaps *othercaps = gst_caps_copy (caps);
    int otherrate;
    GstPadLinkReturn linkret;

    if (pad == audioresample->srcpad) {
        otherrate = audioresample->i_rate;
    } else {
        otherrate = audioresample->o_rate;
    }
    gst_caps_set_simple (othercaps, "rate", G_TYPE_INT, otherrate, NULL);
    linkret = gst_pad_try_set_caps (otherpad, othercaps);
    if (GST_PAD_LINK_FAILED (linkret)) {
        return GST_PAD_LINK_REFUSED;
    }
}

audioresample->channels = channels;
resample_set_n_channels (audioresample->resample, audioresample->channels);
if (pad == audioresample->srcpad) {
    audioresample->o_rate = rate;
    resample_set_output_rate (audioresample->resample, audioresample->o_rate);
    GST_DEBUG ("set o_rate to %d", rate);
} else {
    audioresample->i_rate = rate;
    resample_set_input_rate (audioresample->resample, audioresample->i_rate);
    GST_DEBUG ("set i_rate to %d", rate);
}

return GST_PAD_LINK_OK;
}

static void gst_audioresample_init (Audioresample * audioresample)
{
    ResampleState *r;

    audioresample->sinkpad =

```

```

    gst_pad_new_from_static_template (&gst_audioresample_sink_template,
    "sink");
gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->sinkpad);
gst_pad_set_chain_function (audioresample->sinkpad, gst_audioresample_chain);
gst_pad_set_link_function (audioresample->sinkpad, gst_audioresample_link);
gst_pad_set_getcaps_function (audioresample->sinkpad,
    gst_audioresample_getcaps);
gst_pad_set_fixate_function (audioresample->sinkpad,
    gst_audioresample_fixate);

audioresample->srcpad =
    gst_pad_new_from_static_template (&gst_audioresample_src_template, "src");

gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->srcpad);
gst_pad_set_link_function (audioresample->srcpad, gst_audioresample_link);
gst_pad_set_getcaps_function (audioresample->srcpad,
    gst_audioresample_getcaps);
gst_pad_set_fixate_function (audioresample->srcpad, gst_audioresample_fixate);

r = resample_new ();
audioresample->resample = r;

resample_set_filter_length (r, 64);
resample_set_format (r, RESAMPLE_FORMAT_S16);
}

static void gst_audioresample_dispose (GObject * object)
{
    Audioresample *audioresample = GST_AUDIORESAMPLE (object);

    if (audioresample->resample) {
        resample_free (audioresample->resample);
    }

    G_OBJECT_CLASS (parent_class)->dispose (object);
}

static void gst_audioresample_chain (GstPad * pad, GstData * _data)
{
    GstBuffer *buf = GST_BUFFER (_data);
    Audioresample *audioresample;
    ResampleState *r;
    guchar *data;
    gulong size;
    int outsize;
    GstBuffer *outbuf;

    g_return_if_fail (pad != NULL);

```

```

g_return_if_fail (GST_IS_PAD (pad));
g_return_if_fail (buf != NULL);

audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

if (!GST_IS_BUFFER (_data)) {
    gst_pad_push (audioresample->srcpad, _data);
    return;
}

if (audioresample->passthru) {
    gst_pad_push (audioresample->srcpad, GST_DATA (buf));
    return;
}

r = audioresample->resample;

data = GST_BUFFER_DATA (buf);
size = GST_BUFFER_SIZE (buf);

GST_DEBUG ("got buffer of %ld bytes", size);

resample_add_input_data (r, data, size, (ResampleCallback) gst_data_unref,
    buf);

outsize = resample_get_output_size (r);
/* FIXME this is audioresample being dumb. dunno why */
if (outsize == 0) {
    GST_ERROR ("overriding outbuf size");
    outsize = size;
}
outbuf = gst_buffer_new_and_alloc (outsize);

outsize = resample_get_output_data (r, GST_BUFFER_DATA (outbuf), outsize);
GST_BUFFER_SIZE (outbuf) = outsize;

GST_BUFFER_TIMESTAMP (outbuf) =
    audioresample->offset * GST_SECOND / audioresample->o_rate;
audioresample->offset += outsize / sizeof (gint16) / audioresample->channels;

gst_pad_push (audioresample->srcpad, GST_DATA (outbuf));
}

static void
gst_audioresample_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    Audioresample *audioresample;

```



```

g_return_if_fail (GST_IS_AUDIORESAMPLE (object));
audioresample = GST_AUDIORESAMPLE (object);

switch (prop_id) {
case ARG_FILTERLEN:
    audioresample->filter_length = g_value_get_int (value);
    GST_DEBUG_OBJECT (GST_ELEMENT (audioresample), "new filter length %d\n",
        audioresample->filter_length);
    resample_set_filter_length (audioresample->resample,
        audioresample->filter_length);
    break;
default:G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}

static void
gst_audioresample_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec)
{
    Audioresample *audioresample;

    g_return_if_fail (GST_IS_AUDIORESAMPLE (object));
    audioresample = GST_AUDIORESAMPLE (object);

    switch (prop_id) {
    case ARG_FILTERLEN:
        g_value_set_int (value, audioresample->filter_length);
        break;
    default:
        G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
        break;
    }
}

static gboolean plugin_init (GstPlugin * plugin)
{
    resample_init ();

    if (!gst_element_register (plugin, "audioresample", GST_RANK_PRIMARY,
        GST_TYPE_AUDIORESAMPLE)) {
        return FALSE;
    }

    return TRUE;
}

```

```

GST_PLUGIN_DEFINE (GST_VERSION_MAJOR,
    GST_VERSION_MINOR,
    "audioresample",
    "Resamples audio", plugin_init, VERSION, "LGPL", GST_PACKAGE_NAME,
    GST_PACKAGE_ORIGIN)
/* GStreamer
 * Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
 *
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 * modify it under the terms of the GNU Library General Public
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 * License along with this library; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

```

```

#ifndef __AUDIORESAMPLE_H__
#define __AUDIORESAMPLE_H__

```

```

#include <gst/gst.h>

```

```

#include <audioresample/resample.h>

```

```

G_BEGIN_DECLS

```

```

#define GST_TYPE_AUDIORESAMPLE \
    (audioresample_get_type())
#define GST_AUDIORESAMPLE(obj) \
    (G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIORESAMPLE,Audioresample))
#define GST_AUDIORESAMPLE_CLASS(klass) \
    (G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_AUDIORESAMPLE,AudioresampleClass))
#define GST_IS_AUDIORESAMPLE(obj) \
    (G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIORESAMPLE))
#define GST_IS_AUDIORESAMPLE_CLASS(klass) \
    (G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_AUDIORESAMPLE))

```

```

typedef struct _Audioresample Audioresample;
typedef struct _AudioresampleClass AudioresampleClass;

struct _Audioresample {
    GstElement element;

    GstPad *sinkpad,*srcpad;

    gboolean passthru;

    gint64 offset;
    int channels;

    int i_rate;
    int o_rate;
    int filter_length;

    ResampleState * resample;
};

struct _AudioresampleClass {
    GstElementClass parent_class;
};

GType gst_audioresample_get_type(void);

G_END_DECLS

#endif /* __AUDIORESAMPLE_H__ */
/* GStreamer
 * Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
 * Copyright (C) <2003> David Schleef <ds@schleef.org>
 *
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 *
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```

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* Boston, MA 02111-1307, USA.

*/

/*

* This file was (probably) generated from

* gstvideotemplate.c,v 1.18 2005/11/14 02:13:34 thomasvs Exp

* and

* \$Id: make_filter,v 1.8 2004/04/19 22:51:57 ds Exp \$

*/

```
#ifdef HAVE_CONFIG_H
```

```
#include "config.h"
```

```
#endif
```

```
#include <gst/gst.h>
```

```
#include <gst/base/gstbasetransform.h>
```

```
#include <gst/video/video.h>
```

```
#include <string.h>
```

```
#include <cog/cog.h>
```

```
#include <math.h>
```

```
#include <cog/cogvirtframe.h>
```

```
#define GST_TYPE_COGDOWNSAMPLE \
```

```
(gst_cogdownsample_get_type())
```

```
#define GST_COGDOWNSAMPLE(obj) \
```

```
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_COGDOWNSAMPLE,GstCogdownsample))
```

```
#define GST_COGDOWNSAMPLE_CLASS(klass) \
```

```
(G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_COGDOWNSAMPLE,GstCogdownsampleClass))
```

```
#define GST_IS_COGDOWNSAMPLE(obj) \
```

```
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_COGDOWNSAMPLE))
```

```
#define GST_IS_COGDOWNSAMPLE_CLASS(obj) \
```

```
(G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_COGDOWNSAMPLE))
```

```
typedef struct _GstCogdownsample GstCogdownsample;
```

```
typedef struct _GstCogdownsampleClass GstCogdownsampleClass;
```

```
struct _GstCogdownsample
```

```
{
```

```
  GstBaseTransform base_transform;
```

```
};
```

```
struct _GstCogdownsampleClass
```

```
{
```

```
  GstBaseTransformClass parent_class;
```

```
};
```

```

GType gst_cogdownsample_get_type (void);

enum
{
  ARG_0
};

static void gst_cogdownsample_base_init (gpointer g_class);
static void gst_cogdownsample_class_init (gpointer g_class,
  gpointer class_data);
static void gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class);

static void gst_cogdownsample_set_property (GObject * object, guint prop_id,
  const GValue * value, GParamSpec * pspec);
static void gst_cogdownsample_get_property (GObject * object, guint prop_id,
  GValue * value, GParamSpec * pspec);

static GstCaps *gst_cogdownsample_transform_caps (GstBaseTransform *
  base_transform, GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_cogdownsample_transform (GstBaseTransform *
  base_transform, GstBuffer * inbuf, GstBuffer * outbuf);
static gboolean gst_cogdownsample_get_unit_size (GstBaseTransform *
  base_transform, GstCaps * caps, guint * size);

static GstStaticPadTemplate gst_cogdownsample_sink_template =
GST_STATIC_PAD_TEMPLATE ("sink",
  GST_PAD_SINK,
  GST_PAD_ALWAYS,
  GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }")))
);

static GstStaticPadTemplate gst_cogdownsample_src_template =
GST_STATIC_PAD_TEMPLATE ("src",
  GST_PAD_SRC,
  GST_PAD_ALWAYS,
  GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }")))
);

GType
gst_cogdownsample_get_type (void)
{
  static GType compress_type = 0;

  if (!compress_type) {
    static const GTypeInfo compress_info = {
      sizeof (GstCogdownsampleClass),
      gst_cogdownsample_base_init,

```

```

    NULL,
    gst_cogdownsample_class_init,
    NULL,
    NULL,
    sizeof (GstCogdownsample),
    0,
    gst_cogdownsample_init,
};

compress_type = g_type_register_static (GST_TYPE_BASE_TRANSFORM,
    "GstCogdownsample", &compress_info, 0);
}
return compress_type;
}

```

```

static void
gst_cogdownsample_base_init (gpointer g_class)
{
    GstElementClass *element_class = GST_ELEMENT_CLASS (g_class);

    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&gst_cogdownsample_src_template));
    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&gst_cogdownsample_sink_template));

    gst_element_class_set_details_simple (element_class,
        "Scale down video by factor of 2", "Filter/Effect/Video",
        "Scales down video by a factor of 2", "David Schleeef <ds@schleeef.org>");
}

```

```

static void
gst_cogdownsample_class_init (gpointer g_class, gpointer class_data)
{
    GObjectClass *gobject_class;
    GstBaseTransformClass *base_transform_class;

    gobject_class = G_OBJECT_CLASS (g_class);
    base_transform_class = GST_BASE_TRANSFORM_CLASS (g_class);

    gobject_class->set_property = gst_cogdownsample_set_property;
    gobject_class->get_property = gst_cogdownsample_get_property;

    base_transform_class->transform = gst_cogdownsample_transform;
    base_transform_class->transform_caps = gst_cogdownsample_transform_caps;
    base_transform_class->get_unit_size = gst_cogdownsample_get_unit_size;
}

```

```

static void
gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class)
{

    GST_DEBUG ("gst_cogdownsample_init");
}

static void
gst_cogdownsample_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    GstCogdownsample *src;

    g_return_if_fail (GST_IS_COGDOWNSAMPLE (object));
    src = GST_COGDOWNSAMPLE (object);

    GST_DEBUG ("gst_cogdownsample_set_property");
    switch (prop_id) {
        default:
            break;
    }
}

static void
gst_cogdownsample_get_property (GObject * object, guint prop_id, GValue * value,
    GParamSpec * pspec)
{
    GstCogdownsample *src;

    g_return_if_fail (GST_IS_COGDOWNSAMPLE (object));
    src = GST_COGDOWNSAMPLE (object);

    switch (prop_id) {
        default:
            G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}

static void
transform_value (GValue * dest, const GValue * src, GstPadDirection dir)
{
    g_value_init (dest, G_VALUE_TYPE (src));

    if (G_VALUE HOLDS_INT (src)) {
        int x;

```

```

x = g_value_get_int (src);
if (dir == GST_PAD_SINK) {
    g_value_set_int (dest, x / 2);
} else {
    g_value_set_int (dest, x * 2);
}
} else if (GST_VALUE HOLDS_INT_RANGE (src)) {
    int min, max;

    min = gst_value_get_int_range_min (src);
    max = gst_value_get_int_range_max (src);

    if (dir == GST_PAD_SINK) {
        min = (min + 1) / 2;
        if (max == G_MAXINT) {
            max = G_MAXINT / 2;
        } else {
            max = (max + 1) / 2;
        }
    } else {
        if (max > G_MAXINT / 2) {
            max = G_MAXINT;
        } else {
            max = max * 2;
        }
        if (min > G_MAXINT / 2) {
            min = G_MAXINT;
        } else {
            min = min * 2;
        }
    }
    gst_value_set_int_range (dest, min, max);
} else {
    /* FIXME */
    g_warning ("case not handled");
    g_value_set_int (dest, 100);
}
}

static GstCaps *
gst_cogdownsample_transform_caps (GstBaseTransform * base_transform,
    GstPadDirection direction, GstCaps * caps)
{
    int i;
    GstStructure *structure;
    GValue new_value = { 0 };
    const GValue *value;

```



```

caps = gst_caps_copy (caps);

for (i = 0; i < gst_caps_get_size (caps); i++) {
    structure = gst_caps_get_structure (caps, i);

    value = gst_structure_get_value (structure, "width");
    transform_value (&new_value, value, direction);
    gst_structure_set_value (structure, "width", &new_value);
    g_value_unset (&new_value);

    value = gst_structure_get_value (structure, "height");
    transform_value (&new_value, value, direction);
    gst_structure_set_value (structure, "height", &new_value);
    g_value_unset (&new_value);
}

return caps;
}

static gboolean
gst_cogdownsample_get_unit_size (GstBaseTransform * base_transform,
    GstCaps * caps, guint * size)
{
    int width, height;
    uint32_t format;

    gst_structure_get_fourcc (gst_caps_get_structure (caps, 0),
        "format", &format);
    gst_structure_get_int (gst_caps_get_structure (caps, 0), "width", &width);
    gst_structure_get_int (gst_caps_get_structure (caps, 0), "height", &height);

    switch (format) {
        case GST_MAKE_FOURCC ('I', '4', '2', '0'):
        case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
            *size = width * height * 3 / 2;
            break;
        case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
        case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
            *size = width * height * 2;
            break;
        case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
            *size = width * height * 4;
            break;
        default:
            g_assert_not_reached ();
    }

    return TRUE;
}

```

```

}

static GstFlowReturn
gst_cogdownsample_transform (GstBaseTransform * base_transform,
    GstBuffer * inbuf, GstBuffer * outbuf)
{
    GstCogdownsample *compress;
    CogFrame *outframe;
    int width, height;
    uint32_t format;
    CogFrame *frame;

    g_return_val_if_fail (GST_IS_COGDOWNSAMPLE (base_transform), GST_FLOW_ERROR);
    compress = GST_COGDOWNSAMPLE (base_transform);

    gst_structure_get_fourcc (gst_caps_get_structure (inbuf->caps, 0),
        "format", &format);
    gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
        "width", &width);
    gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
        "height", &height);

    switch (format) {
    case GST_MAKE_FOURCC ('I', '4', '2', '0'):
        frame = cog_frame_new_from_data_I420 (GST_BUFFER_DATA (inbuf),
            width, height);
        outframe = cog_frame_new_from_data_I420 (GST_BUFFER_DATA (outbuf),
            width / 2, height / 2);
        break;
    case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
        frame = cog_frame_new_from_data_YV12 (GST_BUFFER_DATA (inbuf),
            width, height);
        outframe = cog_frame_new_from_data_YV12 (GST_BUFFER_DATA (outbuf),
            width / 2, height / 2);
        break;
    case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
        frame = cog_frame_new_from_data_YUY2 (GST_BUFFER_DATA (inbuf),
            width, height);
        outframe = cog_frame_new_from_data_YUY2 (GST_BUFFER_DATA (outbuf),
            width / 2, height / 2);
        break;
    case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
        frame = cog_frame_new_from_data_UYVY (GST_BUFFER_DATA (inbuf),
            width, height);
        outframe = cog_frame_new_from_data_UYVY (GST_BUFFER_DATA (outbuf),
            width / 2, height / 2);
        break;
    case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):

```

```

    frame = cog_frame_new_from_data_AYUV (GST_BUFFER_DATA (inbuf),
        width, height);
    outframe = cog_frame_new_from_data_AYUV (GST_BUFFER_DATA (outbuf),
        width / 2, height / 2);
    break;
default:
    g_assert_not_reached ();
    return GST_FLOW_ERROR;
}

frame = cog_virt_frame_new_unpack (frame);
frame = cog_virt_frame_new_horiz_downsample (frame, 3);
frame = cog_virt_frame_new_vert_downsample (frame, 2);

switch (format) {
case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
    frame = cog_virt_frame_new_pack_YUY2 (frame);
    break;
case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
    frame = cog_virt_frame_new_pack_UYVY (frame);
    break;
case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
    frame = cog_virt_frame_new_pack_AYUV (frame);
    break;
default:
    break;
}

cog_virt_frame_render (frame, outframe);
cog_frame_unref (frame);
cog_frame_unref (outframe);

return GST_FLOW_OK;
}
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
*
* gstmplex.cc: gstreamer mplex wrapper
*
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```

```

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* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

/**
* SECTION:element-mplex
* @see_also: mpeg2enc
*
* This element is an audio/video multiplexer for MPEG-1/2 video streams
* and (un)compressed audio streams such as AC3, MPEG layer I/II/III.
* It is based on the <ulink url="http://mjpeg.sourceforge.net/">mjpegtools</ulink> library.
* Documentation on creating MPEG videos in general can be found in the
* <ulink url="https://sourceforge.net/docman/display_doc.php?docid=3456&group_id=5776">MJPEG
Howto</ulink>
* and the man-page of the mplex tool documents the properties of this element,
* which are shared with the mplex tool.
*
* <refsect2>
* <title>Example pipeline</title>
* ||
* gst-launch -v videotestsrc num-buffers=1000 ! mpeg2enc ! mplex ! filesink location=videotestsrc.mpg
* || This example pipeline will encode a test video source to an
* MPEG1 elementary stream and multiplexes this to an MPEG system stream.
* <para>
* If several streams are being multiplexed, there should (as usual) be
* a queue in each stream, and due to mplex' buffering the capacities of these
* may have to be set to a few times the default settings to prevent the
* pipeline stalling.
* </para>
* </refsect2>
*/

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include <string.h>

#include "gstmplex.hh"
#include "gstmplexoutputstream.hh"
#include "gstmplexibitstream.hh"
#include "gstmplexjob.hh"

GST_DEBUG_CATEGORY (mplex_debug);

```

```

static GstStaticPadTemplate src_tmpl = GST_STATIC_PAD_TEMPLATE ("src",
    GST_PAD_SRC,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS ("video/mpeg, systemstream = (boolean) true ")
);

```

```

static GstStaticPadTemplate video_sink_tmpl =
GST_STATIC_PAD_TEMPLATE ("video_%d",
    GST_PAD_SINK,
    GST_PAD_REQUEST,
    GST_STATIC_CAPS ("video/mpeg, "
        "mpegversion = (int) { 1, 2 }, "
        "systemstream = (boolean) false, "
        "width = (int) [ 16, 4096 ], "
        "height = (int) [ 16, 4096 ], framerate = (fraction) [ 0, MAX ]")
);

```

```

#define COMMON_AUDIO_CAPS \
"channels = (int) [ 1, 8 ], " \
"rate = (int) [ 8000, 96000 ]"

```

```

static GstStaticPadTemplate audio_sink_tmpl =
    GST_STATIC_PAD_TEMPLATE ("audio_%d",
    GST_PAD_SINK,
    GST_PAD_REQUEST,
    GST_STATIC_CAPS ("audio/mpeg, "
        "mpegversion = (int) 1, "
        "layer = (int) [ 1, 3 ], "
        COMMON_AUDIO_CAPS "; "
        "audio/x-ac3, "
        COMMON_AUDIO_CAPS "; "
        "audio/x-dts; "
        "audio/x-raw-int, "
        "endianness = (int) BIG_ENDIAN, "
        "signed = (boolean) TRUE, "
        "width = (int) { 16, 20, 24 }, "
        "depth = (int) { 16, 20, 24 }, "
        "rate = (int) { 48000, 96000 }, " "channels = (int) [ 1, 6 ]")
);

```

```

/* FIXME: subtitles */

```

```

static void gst_mux_finalize (GObject * object);
static void gst_mux_reset (GstMux * mux);
static void gst_mux_loop (GstMux * mux);
static GstPad *gst_mux_request_new_pad (GstElement * element,
    GstPadTemplate * templ, const gchar * name);

```

```

static void gst_mplex_release_pad (GstElement * element, GstPad * pad);
static gboolean gst_mplex_src_activate_push (GstPad * pad, gboolean active);
static GstStateChangeReturn gst_mplex_change_state (GstElement * element,
    GstStateChange transition);

static void gst_mplex_get_property (GObject * object,
    guint prop_id, GValue * value, GParamSpec * pspec);
static void gst_mplex_set_property (GObject * object,
    guint prop_id, const GValue * value, GParamSpec * pspec);

GST_BOILERPLATE (GstMplex, gst_mplex, GstElement, GST_TYPE_ELEMENT);

static void
gst_mplex_base_init (gpointer klass)
{
    GstElementClass *element_class = GST_ELEMENT_CLASS (klass);

    gst_element_class_set_details_simple (element_class,
        "mplex video multiplexer", "Codec/Muxer",
        "High-quality MPEG/DVD/SVCD/VCD video/audio multiplexer",
        "Andrew Stevens <andrew.stevens@nexgo.de>\n"
        "Ronald Bultje <rbultje@ronald.bitfreak.net>\n"
        "Mark Nauwelaerts <mnauw@users.sourceforge.net>");

    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&src_tmpl));
    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&video_sink_tmpl));
    gst_element_class_add_pad_template (element_class,
        gst_static_pad_template_get (&audio_sink_tmpl));
}

static void
gst_mplex_class_init (GstMplexClass * klass)
{
    GObjectClass *object_class = G_OBJECT_CLASS (klass);
    GstElementClass *element_class = GST_ELEMENT_CLASS (klass);

    GST_DEBUG_CATEGORY_INIT (mplex_debug, "mplex", 0, "MPEG video/audio muxer");

    object_class->set_property = gst_mplex_set_property;
    object_class->get_property = gst_mplex_get_property;

    /* register properties */
    GstMplexJob::initProperties (object_class);

    object_class->finalize = GST_DEBUG_FUNC_PTR (gst_mplex_finalize);

```

```

element_class->change_state = GST_DEBUG_FUNCPTR (gst_mux_change_state);
element_class->request_new_pad =
    GST_DEBUG_FUNCPTR (gst_mux_request_new_pad);
element_class->release_pad = GST_DEBUG_FUNCPTR (gst_mux_release_pad);
}

```

```

static void
gst_mux_finalize (GObject * object)
{
    GstMux *mux = GST_MUX (object);
    GSList *walk;

    /* release all pads */
    walk = mux->pads;
    while (walk) {
        GstMuxPad *mpad = (GstMuxPad *) walk->data;

        gst_object_unref (mpad->pad);
        mpad->pad = NULL;
        walk = walk->next;
    }
}

```

```

/* clean up what's left of them */
gst_mux_reset (mux);

```

```

/* ... and of the rest */
delete mux->job;

```

```

g_mutex_free (mux->tlock);

```

```

G_OBJECT_CLASS (parent_class)->finalize (object);
}

```

```

static void
gst_mux_init (GstMux * mux, GstMuxClass * g_class)
{
    GstElement *element = GST_ELEMENT (mux);
    GstElementClass *element_class = GST_ELEMENT_CLASS (g_class);

    mux->srcpad =
        gst_pad_new_from_template (gst_element_class_get_pad_template
            (element_class, "src"), "src");
    gst_element_add_pad (element, mux->srcpad);
    gst_pad_use_fixed_caps (mux->srcpad);
    gst_pad_set_activatepush_function (mux->srcpad,
        GST_DEBUG_FUNCPTR (gst_mux_src_activate_push));

    mux->job = new GstMuxJob ();
}

```

```

mplex->num_apads = 0;
mplex->num_vpads = 0;

mplex->tlock = g_mutex_new ();

gst_mplex_reset (mplex);
}

static void
gst_mplex_reset (GstMplex * mplex)
{
    GSList *walk;
    GSList *nlist = NULL;

    mplex->eos = FALSE;
    mplex->srcresult = GST_FLOW_CUSTOM_SUCCESS;

    /* reset existing streams */
    walk = mplex->pads;
    while (walk != NULL) {
        GstMplexPad *mpad;

        mpad = (GstMplexPad *) walk->data;

        mpad->needed = 0;
        mpad->eos = FALSE;
        gst_adapter_clear (mpad->adapter);
        if (mpad->bs) {
            delete mpad->bs;

            mpad->bs = NULL;
        }

        if (!mpad->pad) {
            g_cond_free (mpad->cond);
            g_object_unref (mpad->adapter);
            g_free (mpad);
        } else
            nlist = g_slist_append (nlist, mpad);

        walk = walk->next;
    }

    g_slist_free (mplex->pads);
    mplex->pads = nlist;

    /* clear mplex stuff */
    /* clean up stream settings */

```



```

while (!mplex->job->streams.empty ()) {
    delete mplex->job->streams.back ();

    mplex->job->streams.pop_back ();
}
while (!mplex->job->video_param.empty ()) {
    delete mplex->job->video_param.back ();

    mplex->job->video_param.pop_back ();
}
while (!mplex->job->lpcm_param.empty ()) {
    delete mplex->job->lpcm_param.back ();

    mplex->job->lpcm_param.pop_back ();
}
mplex->job->audio_tracks = 0;
mplex->job->video_tracks = 0;
mplex->job->lpcm_tracks = 0;
}

static gboolean
gst_muxer_setcaps (GstPad * pad, GstCaps * caps)
{
    GstMplex *mplex;
    const gchar *mime;
    GstStructure *structure;
    StreamKind type;
    JobStream *jobstream;
    GstMplexIBitStream *inputstream;
    GstMplexPad *mpad;
    GstCaps *othercaps;
    gboolean ret = TRUE;

    mplex = GST_MPLEX (GST_PAD_PARENT (pad));

    /* does not go well to negotiate when started */
    if (mplex->srcresult != GST_FLOW_CUSTOM_SUCCESS)
        goto refuse_renegotiation;

    /* since muxer does not really check much ... */
    othercaps = gst_caps_intersect (caps, gst_pad_get_pad_template_caps (pad));
    if (othercaps)
        gst_caps_unref (othercaps);
    else
        goto refuse_caps;

    /* set the fixed template caps on the srcpad, should accept without objection */
    othercaps = gst_caps_copy (gst_pad_get_pad_template_caps (mplex->srcpad));

```

```

ret = gst_pad_set_caps (mplex->srcpad, othercaps);
gst_caps_unref (othercaps);
if (!ret)
    goto refuse_caps;

structure = gst_caps_get_structure (caps, 0);
mime = gst_structure_get_name (structure);

if (!strcmp (mime, "video/mpeg")) { /* video */
    VideoParams *params;

    type = MPEG_VIDEO;
    if (mplex->job->bufsize)
        params = VideoParams::Checked (mplex->job->bufsize);
    else
        params = VideoParams::Default (mplex->job->mux_format);
    /* set standard values if forced by the selected profile */
    if (params->Force (mplex->job->mux_format))
        GST_WARNING_OBJECT (mplex,
            "overriding non-standard option due to selected profile");

    mplex->job->video_param.push_back (params);
    mplex->job->video_tracks++;
} else { /* audio */
    if (!strcmp (mime, "audio/mpeg")) {
        type = MPEG_AUDIO;
    } else if (!strcmp (mime, "audio/x-ac3")) {
        type = AC3_AUDIO;
    } else if (!strcmp (mime, "audio/x-dts")) {
        type = DTS_AUDIO;
    } else if (!strcmp (mime, "audio/x-raw-int")) {
        LpcmParams *params;
        gint bits, chans, rate;
        gboolean result = TRUE;

        type = LPCM_AUDIO;

        /* set LPCM params */
        result &= gst_structure_get_int (structure, "depth", &bits);
        result &= gst_structure_get_int (structure, "rate", &rate);
        result &= gst_structure_get_int (structure, "channels", &chans);
        if (!result)
            goto refuse_caps;

        params = LpcmParams::Checked (rate, chans, bits);

        mplex->job->lpcm_param.push_back (params);
        mplex->job->lpcm_tracks++;
    }
}

```

```

    } else
        goto refuse_caps;

    mplex->job->audio_tracks++;
}

mpad = (GstMplexPad *) gst_pad_get_element_private (pad);
g_return_val_if_fail (mpad, FALSE);
inputstream = new GstMplexIBitStream (mpad);
mpad->bs = inputstream;
jobstream = new JobStream (inputstream, type);
mplex->job->streams.push_back (jobstream);

return TRUE;

refuse_caps:
{
    GST_WARNING_OBJECT (mplex, "refused caps %" GST_PTR_FORMAT, caps);

    /* undo if we were a bit too fast/confident */
    if (GST_PAD_CAPS (mplex->srcpad))
        gst_pad_set_caps (mplex->srcpad, NULL);

    return FALSE;
}

refuse_renegotiation:
{
    GST_WARNING_OBJECT (mplex, "already started; "
        "refused (re)negotiation (to %" GST_PTR_FORMAT ")", caps);

    return FALSE;
}
}

static void
gst_mux_loop (GstMplex * mplex)
{
    GstMplexOutputStream *out = NULL;
    Multiplexor *mux = NULL;
    GSList *walk;

    /* do not try to resume muxing after it finished
     * this can be relevant mainly/only in case of forced state change */
    if (mplex->eos)
        goto eos;

    /* inform downstream about what's coming */
    gst_pad_push_event (mplex->srcpad, gst_event_new_new_segment (FALSE, 1.0,

```

```

    GST_FORMAT_BYTES, 0, -1, 0));

/* hm (!) each inputstream really needs an initial read
 * so that all is internally in the proper state */
walk = mplex->pads;
while (walk != NULL) {
    GstMplexPad *mpad;

    mpad = (GstMplexPad *) walk->data;
    mpad->bs->ReadBuffer ();

    walk = walk->next;
}

/* create new multiplexer with inputs/output */
out = new GstMplexOutputStream (mplex, mplex->srcpad);
#if GST_MJPEGTOOLS_API >= 10900
    mux = new Multiplexor (*mplex->job, *out, NULL);
#else
    mux = new Multiplexor (*mplex->job, *out);
#endif

if (mux) {
    mux->Multiplex ();
    delete mux;
    delete out;

    /* if not well and truly eos, something strange happened */
    if (!mplex->eos) {
        GST_ERROR_OBJECT (mplex, "muxing task ended without being eos");
        /* notify there is no point in collecting any more */
        GST_MPLEX_MUTEX_LOCK (mplex);
        mplex->srcresult = GST_FLOW_ERROR;
        GST_MPLEX_SIGNAL_ALL (mplex);
        GST_MPLEX_MUTEX_UNLOCK (mplex);
    } else
        goto eos;
    } else {
        GST_WARNING_OBJECT (mplex, "failed to create Multiplexor");
    }

    /* fall-through */
done:
    {
        /* no need to run wildly, stopped elsewhere, e.g. state change */
        GST_DEBUG_OBJECT (mplex, "pausing muxing task");
        gst_pad_pause_task (mplex->srcpad);
    }
}

```

```

    return;
}
eos:
{
    GST_DEBUG_OBJECT (mplex, "encoding task reached eos");
    goto done;
}
}

```

```

static gboolean
gst_mplex_sink_event (GstPad * sinkpad, GstEvent * event)
{
    GstMplex *mplex;
    GstMplexPad *mpad;
    gboolean result = TRUE;

    mplex = (GstMplex *) (GST_PAD_PARENT (sinkpad));
    mpad = (GstMplexPad *) gst_pad_get_element_private (sinkpad);
    g_return_val_if_fail (mpad, FALSE);

```

```

switch (GST_EVENT_TYPE (event)) {
case GST_EVENT_FLUSH_START:
    /* forward event */
    gst_pad_event_default (sinkpad, event);

    /* now unblock the chain function */
    GST_MPLEX_MUTEX_LOCK (mplex);
    mplex->srcresult = GST_FLOW_WRONG_STATE;
    GST_MPLEX_SIGNAL (mplex, mpad);
    GST_MPLEX_MUTEX_UNLOCK (mplex);
    /* no way to pause/restart loop task */
    goto done;
case GST_EVENT_FLUSH_STOP:
    /* forward event */
    gst_pad_event_default (sinkpad, event);

    /* clear state and resume */
    GST_MPLEX_MUTEX_LOCK (mplex);
    gst_adapter_clear (mpad->adapter);
    mplex->srcresult = GST_FLOW_OK;
    GST_MPLEX_MUTEX_UNLOCK (mplex);
    goto done;
case GST_EVENT_NEWSEGMENT:
    /* eat segments; we make our own (byte)stream */
    gst_event_unref (event);
    goto done;
case GST_EVENT_EOS:
    /* inform this pad that it can stop now */

```

```

GST_MPLEX_MUTEX_LOCK (mplex);
mpad->eos = TRUE;
GST_MPLEX_SIGNAL (mplex, mpad);
GST_MPLEX_MUTEX_UNLOCK (mplex);

/* eat this event for now, task will send eos when finished */
gst_event_unref (event);
goto done;
default:
/* for a serialized event, wait until earlier data is gone,
 * though this is no guarantee as to when task is done with it.
 * Only wait if loop has been started already */
if (GST_EVENT_IS_SERIALIZED (event)) {
    GST_MPLEX_MUTEX_LOCK (mplex);
    while (mplex->srcresult == GST_FLOW_OK && !mpad->needed)
        GST_MPLEX_WAIT (mplex, mpad);
    GST_MPLEX_MUTEX_UNLOCK (mplex);
}
break;
}

result = gst_pad_event_default (sinkpad, event);

done:
return result;
}

/* starts task if conditions are right for it
 * must be called with mutex_lock held */
static void
gst_mplex_start_task (GstMplex * mplex)
{
/* start task to create multiplexor and start muxing */
if (G_UNLIKELY (mplex->srcresult == GST_FLOW_CUSTOM_SUCCESS)
    && mplex->job->video_tracks == mplex->num_vpads
    && mplex->job->audio_tracks == mplex->num_apads) {
    gst_pad_start_task (mplex->srcpad, (GstTaskFunction) gst_mplex_loop, mplex);
    mplex->srcresult = GST_FLOW_OK;
}
}

static GstFlowReturn
gst_mplex_chain (GstPad * sinkpad, GstBuffer * buffer)
{
    GstMplex *mplex;
    GstMplexPad *mpad;

    mplex = (GstMplex *) (GST_PAD_PARENT (sinkpad));

```

```

mpad = (GstMplexPad *) gst_pad_get_element_private (sinkpad);
g_return_val_if_fail (mpad, GST_FLOW_ERROR);

/* check if pad were properly negotiated and set up */
if (G_UNLIKELY (!mpad->bs)) {
    GST_ELEMENT_ERROR (mplex, CORE, NEGOTIATION, (NULL),
        ("input pad has not been set up prior to chain function"));
    return GST_FLOW_NOT_NEGOTIATED;
}

GST_MPLEX_MUTEX_LOCK (mplex);

gst_mplex_start_task (mplex);

if (G_UNLIKELY (mpad->eos))
    goto eos;

if (G_UNLIKELY (mplex->srcresult != GST_FLOW_OK))
    goto ignore;

gst_adapter_push (mpad->adapter, buffer);
buffer = NULL;
while (gst_adapter_available (mpad->adapter) >= mpad->needed) {
    GST_MPLEX_SIGNAL (mplex, mpad);
    GST_MPLEX_WAIT (mplex, mpad);
    /* may have become flushing or in error */
    if (G_UNLIKELY (mplex->srcresult != GST_FLOW_OK))
        goto ignore;
    /* or been removed */
    if (G_UNLIKELY (mpad->eos))
        goto eos;
}

GST_MPLEX_MUTEX_UNLOCK (mplex);

return GST_FLOW_OK;

/* special cases */
eos:
{
    GST_DEBUG_OBJECT (mplex, "ignoring buffer at end-of-stream");
    GST_MPLEX_MUTEX_UNLOCK (mplex);

    gst_buffer_unref (buffer);
    return GST_FLOW_UNEXPECTED;
}
ignore:
{

```

```

GstFlowReturn ret = mplex->srcresult;

GST_DEBUG_OBJECT (mplex, "ignoring buffer because src task encountered %s",
    gst_flow_get_name (ret));
GST_MPLEX_MUTEX_UNLOCK (mplex);

if (buffer)
    gst_buffer_unref (buffer);
return ret;
}
}

static GstPad *
gst_mplex_request_new_pad (GstElement * element,
    GstPadTemplate * templ, const gchar * name)
{
    GstElementClass *klass = GST_ELEMENT_GET_CLASS (element);
    GstMplex *mplex = GST_MPLEX (element);
    gchar *padname;
    GstPad *newpad;
    GstMplexPad *mpad;

    if (templ == gst_element_class_get_pad_template (klass, "audio_%d")) {
        GST_DEBUG_OBJECT (mplex, "request pad audio %d", mplex->num_apads);
        padname = g_strdup_printf ("audio_%d", mplex->num_apads++);
    } else if (templ == gst_element_class_get_pad_template (klass, "video_%d")) {
        GST_DEBUG_OBJECT (mplex, "request pad video %d", mplex->num_vpads);
        padname = g_strdup_printf ("video_%d", mplex->num_vpads++);
    } else {
        GST_WARNING_OBJECT (mplex, "This is not our template!");
        return NULL;
    }

    newpad = gst_pad_new_from_template (templ, padname);
    g_free (padname);

    mpad = g_new0 (GstMplexPad, 1);
    mpad->adapter = gst_adapter_new ();
    mpad->cond = g_cond_new ();
    gst_object_ref (newpad);
    mpad->pad = newpad;

    gst_pad_set_setcaps_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_setcaps));
    gst_pad_set_chain_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_chain));
    gst_pad_set_event_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_sink_event));
    gst_pad_set_element_private (newpad, mpad);
    gst_element_add_pad (element, newpad);
    mplex->pads = g_slist_append (mplex->pads, mpad);
}

```



```

return newpad;
}

static void
gst_mux_release_pad (GstElement * element, GstPad * pad)
{
    GstMplex *mplex = GST_MPLEX (element);
    GstMplexPad *mpad;

    g_return_if_fail (pad);
    mpad = (GstMplexPad *) gst_pad_get_element_private (pad);
    g_return_if_fail (mpad);

    if (gst_element_remove_pad (element, pad)) {
        gchar *padname;

        GST_MPLEX_MUTEX_LOCK (mplex);
        mpad->eos = TRUE;
        gst_object_unref (mpad->pad);
        mpad->pad = NULL;
        /* wake up if waiting on this pad */
        GST_MPLEX_SIGNAL (mplex, mpad);

        padname = gst_object_get_name (GST_OBJECT (pad));
        if (strstr (padname, "audio")) {
            mplex->num_apads--;
        } else {
            mplex->num_vpads--;
        }
        g_free (padname);

        /* may now be up to us to get things going */
        gst_mux_start_task (mplex);
        GST_MPLEX_MUTEX_UNLOCK (mplex);
    }
}

static void
gst_mux_get_property (GObject * object,
    guint prop_id, GValue * value, GParamSpec * pspec)
{
    GST_MPLEX (object)->job->getProperty (prop_id, value);
}

static void
gst_mux_set_property (GObject * object,
    guint prop_id, const GValue * value, GParamSpec * pspec)

```

```

{
    GST_MPLEX (object)->job->setProperty (prop_id, value);
}

static gboolean
gst_muxer_src_activate_push (GstPad * pad, gboolean active)
{
    gboolean result = TRUE;
    GstMplex *mplex;

    mplex = GST_MPLEX (GST_PAD_PARENT (pad));

    if (active) {
        /* chain will start task once all streams have been setup */
    } else {
        /* end the muxing loop by forcing eos and unblock chains */
        GST_MPLEX_MUTEX_LOCK (mplex);
        mplex->eos = TRUE;
        mplex->srcresult = GST_FLOW_WRONG_STATE;
        GST_MPLEX_SIGNAL_ALL (mplex);
        GST_MPLEX_MUTEX_UNLOCK (mplex);

        /* muxing loop should have ended now and can be joined */
        result = gst_pad_stop_task (pad);
    }

    return result;
}

static GstStateChangeReturn
gst_muxer_change_state (GstElement * element, GstStateChange transition)
{
    GstMplex *mplex = GST_MPLEX (element);
    GstStateChangeReturn ret;

    switch (transition) {
        case GST_STATE_CHANGE_NULL_TO_READY:
            break;
        case GST_STATE_CHANGE_READY_TO_PAUSED:
            break;
        case GST_STATE_CHANGE_PAUSED_TO_PLAYING:
            break;
        default:
            break;
    }

    ret = GST_ELEMENT_CLASS (parent_class)->change_state (element, transition);
    if (ret == GST_STATE_CHANGE_FAILURE)

```

```

goto done;

switch (transition) {
case GST_STATE_CHANGE_PAUSED_TO_READY:
    gst_mplex_reset (mplex);
    break;
default:
    break;
}

done:
return ret;
}

#ifdef GST_DISABLE_GST_DEBUG

static mjpeg_log_handler_t old_handler = NULL;

/* note that this will affect all mjpegtools elements/threads */
static void
gst_mplex_log_callback (log_level_t level, const char *message)
{
    GstDebugLevel gst_level;

#ifdef GST_MJPEGTOOLS_API >= 10900
    static const gint mjpeg_log_error = mjpeg_loglev_t ("error");
    static const gint mjpeg_log_warn = mjpeg_loglev_t ("warn");
    static const gint mjpeg_log_info = mjpeg_loglev_t ("info");
    static const gint mjpeg_log_debug = mjpeg_loglev_t ("debug");
#else
    static const gint mjpeg_log_error = LOG_ERROR;
    static const gint mjpeg_log_warn = LOG_WARN;
    static const gint mjpeg_log_info = LOG_INFO;
    static const gint mjpeg_log_debug = LOG_DEBUG;
#endif

    if (level == mjpeg_log_error) {
        gst_level = GST_LEVEL_ERROR;
    } else if (level == mjpeg_log_warn) {
        gst_level = GST_LEVEL_WARNING;
    } else if (level == mjpeg_log_info) {
        gst_level = GST_LEVEL_INFO;
    } else if (level == mjpeg_log_debug) {
        gst_level = GST_LEVEL_DEBUG;
    } else {
        gst_level = GST_LEVEL_INFO;
    }
}

```

```

/* message could have a % in it, do not segfault in such case */
gst_debug_log (mplex_debug, gst_level, "", "", 0, NULL, "%s", message);

/* chain up to the old handler;
 * this could actually be a handler from another mjpegtools based
 * gstreamer element; in which case messages can come out double or from
 * the wrong element ... */
old_handler (level, message);
}
#endif

static gboolean
plugin_init (GstPlugin * plugin)
{
#ifdef GST_DISABLE_GST_DEBUG
old_handler = mjpeg_log_set_handler (gst_mplex_log_callback);
g_assert (old_handler != NULL);
#endif
/* in any case, we do not want default handler output */
mjpeg_default_handler_verbosity (0);

return gst_element_register (plugin, "mplex", GST_RANK_NONE, GST_TYPE_MPLEX);
}

GST_PLUGIN_DEFINE (GST_VERSION_MAJOR,
GST_VERSION_MINOR,
"mplex",
"High-quality MPEG/DVD/SVCD/VCD video/audio multiplexer",
plugin_init, VERSION, "GPL", GST_PACKAGE_NAME, GST_PACKAGE_ORIGIN)
/* GStreamer mplex (mjpegtools) wrapper
 * (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
 *
 * gstmplex.hh: gstreamer mplex wrapper
 *
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 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.

```

```

*/

#ifndef __GST_MPLEX_H__
#define __GST_MPLEX_H__

#include <gst/gst.h>
#include <gst/base/gstadapter.h>
#include <multiplexor.hpp>
#include "gstmultiplexjob.hh"
#include "gstmultiplexjob.hh"

G_BEGIN_DECLS

#define GST_TYPE_MPLEX \
    (gst_mplex_get_type ())
#define GST_MPLEX(obj) \
    (G_TYPE_CHECK_INSTANCE_CAST ((obj), GST_TYPE_MPLEX, GstMplex))
#define GST_MPLEX_CLASS(klass) \
    (G_TYPE_CHECK_CLASS_CAST ((klass), GST_TYPE_MPLEX, GstMplex))
#define GST_IS_MPLEX(obj) \
    (G_TYPE_CHECK_INSTANCE_TYPE ((obj), GST_TYPE_MPLEX))
#define GST_IS_MPLEX_CLASS(obj) \
    (G_TYPE_CHECK_CLASS_TYPE ((klass), GST_TYPE_MPLEX))

GST_DEBUG_CATEGORY_EXTERN (mplex_debug);
#define GST_CAT_DEFAULT mplex_debug

#define GST_MPLEX_MUTEX_LOCK(m) G_STMT_START { \
    GST_LOG_OBJECT (m, "locking tlock from thread %p", g_thread_self ()); \
    g_mutex_lock ((m)->tlock); \
    GST_LOG_OBJECT (m, "locked tlock from thread %p", g_thread_self ()); \
} G_STMT_END

#define GST_MPLEX_MUTEX_UNLOCK(m) G_STMT_START { \
    GST_LOG_OBJECT (m, "unlocking tlock from thread %p", g_thread_self ()); \
    g_mutex_unlock ((m)->tlock); \
} G_STMT_END

#define GST_MPLEX_WAIT(m, p) G_STMT_START { \
    GST_LOG_OBJECT (m, "thread %p waiting", g_thread_self ()); \
    g_cond_wait ((p)->cond, (m)->tlock); \
} G_STMT_END

#define GST_MPLEX_SIGNAL(m, p) G_STMT_START { \
    GST_LOG_OBJECT (m, "signalling from thread %p", g_thread_self ()); \
    g_cond_signal ((p)->cond); \
} G_STMT_END

```

```

#define GST_MPLEX_SIGNAL_ALL(m) G_STMT_START {
    GST_LOG_OBJECT (m, "signalling all from thread %p", g_thread_self ());
    GSList *walk = m->pads;
    while (walk) {
        GST_MPLEX_SIGNAL (m, (GstMplexPad *) walk->data);
        walk = walk->next;
    }
} G_STMT_END

```

```

typedef struct _GstMplexPad
{
    /* associated pad */
    GstPad *pad;
    /* with mplex TLOCK */
    /* adapter collecting buffers for this pad */
    GstAdapter *adapter;
    /* no more to expect on this pad */
    gboolean eos;
    /* signals counterpart thread to have a look */
    GCond *cond;
    /* amount needed by mplex on this stream */
    guint needed;
    /* bitstream for this pad */
    GstMplexIBitStream *bs;
} GstMplexPad;

```

```

typedef struct _GstMplex {
    GstElement parent;

    /* pads */
    GSList *pads;
    GstPad *srcpad;
    guint num_apads, num_vpads;

    /* options wrapper */
    GstMplexJob *job;

    /* lock for syncing */
    GMutex *tlock;
    /* with TLOCK */
    /* muxer writer generated eos */
    gboolean eos;
    /* flowreturn obtained by muxer task */
    GstFlowReturn srcresult;
} GstMplex;

```

```

typedef struct _GstMplexClass {
    GstElementClass parent;

```

```
} GstMplexClass;
```

```
GType gst_mplex_get_type (void);
```

```
G_END_DECLS
```

```
#endif /* __GST_MPLEX_H__ */
```

```
/* GStreamer mplex (mjpegtools) wrapper
```

```
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```

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```
* gstmplexibitstream.hh: gstreamer/mplex input bitstream wrapper
```

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```
*/
```

```
#ifdef HAVE_CONFIG_H
```

```
#include "config.h"
```

```
#endif
```

```
#include <string.h>
```

```
#include "gstmplex.hh"
```

```
#include "gstmplexibitstream.hh"
```

```
/*
```

```
* Class init/exit functions.
```

```
*/
```

```
GstMplexIBitStream::GstMplexIBitStream (GstMplexPad * _data, guint buf_size):
```

```
IBitStream ()
```

```
{
```

```
    mpad = _data;
```

```
    mplex = GST_MPLEX (GST_PAD_PARENT (mpad->pad));
```

```
    eos = FALSE;
```

```

SetBufSize (buf_size);
eobs = false;
byteidx = 0;
}

/*
 * Read data.
 */

size_t
GstMplexIBitStream::ReadStreamBytes (uint8_t * buf, size_t size =
    BUFFER_SIZE)
{
    guint8 *data;

    GST_MPLEX_MUTEX_LOCK (mplex);

    GST_DEBUG_OBJECT (mplex, "needing %d bytes", (guint) size);

    while (gst_adapter_available (mpad->adapter) < size
        && !mplex->eos && !mpad->eos) {
        mpad->needed = size;
        GST_MPLEX_SIGNAL (mplex, mpad);
        GST_MPLEX_WAIT (mplex, mpad);
    }

    mpad->needed = 0;
    size = MIN (size, gst_adapter_available (mpad->adapter));
    if (size) {
        data = gst_adapter_take (mpad->adapter, size);
        memcpy (buf, data, size);
        g_free (data);
    }

    GST_MPLEX_MUTEX_UNLOCK (mplex);

    return size;
}

/*
 * Are we at EOS?
 */

bool GstMplexIBitStream::EndOfStream (void)
{
    return eos;
}

```



```

bool GstMplexIBitStream::ReadBuffer ()
{
    return ReadIntoBuffer (BUFFER_SIZE);
}
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
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*/

#ifndef __GST_MPLEXIBITSTREAM_H__
#define __GST_MPLEXIBITSTREAM_H__

#include <gst/gst.h>
#include <mjpeg_types.h>
#include <bits.hpp>

#include "gstmplex.hh"

/* forward declaration; break circular referencing */
typedef struct _GstMplex GstMplex;
typedef struct _GstMplexPad GstMplexPad;

class GstMplexIBitStream : public IBitStream {
public:
    GstMplexIBitStream (GstMplexPad *pad, guint buf_size = BUFFER_SIZE);
    bool ReadBuffer ();

protected:
    /* read data */
    size_t ReadStreamBytes (uint8_t *buf, size_t number);

```

```

/* are we at EOS? */
bool EndOfStream (void);

private:
    GstMplex *mplex;
    GstMplexPad *mpad;
    gboolean eos;
};

#endif /* __GST_MPLEXIBITSTREAM_H__ */
/* GStreamer mplex (mjpegtools) wrapper
 * (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
 *
 * gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper
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 */

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include "gstmplexjob.hh"

enum
{
    ARG_0,
    ARG_FORMAT,
    ARG_MUX_BITRATE,
    ARG_VBR,
    ARG_SYSTEM_HEADERS,
    ARG_SPLIT_SEQUENCE,
    ARG_SEGMENT_SIZE,

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ARG_PACKETS_PER_PACK,
ARG_SECTOR_SIZE,
ARG_BUFSIZE
    /* FILL ME */
};

/*
 * Property enumeration types.
 */

#define GST_TYPE_MPLEX_FORMAT \
(gst_mplex_format_get_type ())

static GType
gst_mplex_format_get_type (void)
{
    static GType mplex_format_type = 0;

    if (!mplex_format_type) {
        static const GEnumValue mplex_formats[] = {
            {0, "Generic MPEG-1", "0"},
            {1, "Standard VCD", "1"},
            {2, "User VCD", "2"},
            {3, "Generic MPEG-2", "3"},
            {4, "Standard SVCD", "4"},
            {5, "User SVCD", "5"},
            {6, "VCD Stills sequences", "6"},
            {7, "SVCD Stills sequences", "7"},
            {8, "DVD MPEG-2 for dvdauthor", "8"},
            {9, "DVD MPEG-2", "9"},
            {0, NULL, NULL},
        };

        mplex_format_type =
            g_enum_register_static ("GstMplexFormat", mplex_formats);
    }

    return mplex_format_type;
}

/*
 * Class init functions.
 */

GstMplexJob::GstMplexJob (void):
MultiplexJob ()
{
    /* blabla */

```

```

bufsize = 0;
}

/*
 * GObject properties.
 */

void
GstMplexJob::initProperties (GObjectClass * klass)
{
    /* encoding profile */
    g_object_class_install_property (klass, ARG_FORMAT,
        g_param_spec_enum ("format", "Format", "Encoding profile format",
            GST_TYPE_MPLEX_FORMAT, 0,
            (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));

    /* total stream datarate. Normally, this shouldn't be needed, but
     * some DVD/VCD/SVCD players really need strict values to handle
     * the created files correctly. */
    g_object_class_install_property (klass, ARG_MUX_BITRATE,
        g_param_spec_int ("mux-bitrate", "Mux. bitrate",
            "Bitrate of output stream in kbps (0 = autodetect)",
            0, 15 * 1024, 0,
            (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));

    /* override decode buffer size otherwise determined by format */
    g_object_class_install_property (klass, ARG_BUFSIZE,
        g_param_spec_int ("bufsize", "Decoder buf. size",
            "Target decoders video buffer size (kB) "
            "[default determined by format if not explicitly set]",
            20, 4000, 46,
            (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));

    /* some boolean stuff for headers */
    g_object_class_install_property (klass, ARG_VBR,
        g_param_spec_boolean ("vbr", "VBR",
            "Whether the input video stream is variable bitrate",
            FALSE,
            (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
    g_object_class_install_property (klass, ARG_SYSTEM_HEADERS,
        g_param_spec_boolean ("system-headers", "System headers",
            "Create system header in every pack for generic formats",
            FALSE,
            (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
    #if 0
        /* not supported */
    g_object_class_install_property (klass, ARG_SPLIT_SEQUENCE,
        g_param_spec_boolean ("split-sequence", "Split sequence",
            "Simply split a sequence across files "

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```

        "(rather than building run-out/run-in)",
        FALSE,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));

/* size of a segment */
g_object_class_install_property (klass, ARG_SEGMENT_SIZE,
    g_param_spec_int ("max-segment-size", "Max. segment size",
        "Max. size per segment/file in MB (0 = unlimited)",
        0, 10 * 1024, 0,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));
#endif

/* packets per pack (generic formats) */
g_object_class_install_property (klass, ARG_PACKETS_PER_PACK,
    g_param_spec_int ("packets-per-pack", "Packets per pack",
        "Number of packets per pack for generic formats",
        1, 100, 1,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));

/* size of one sector */
g_object_class_install_property (klass, ARG_SECTOR_SIZE,
    g_param_spec_int ("sector-size", "Sector size",
        "Specify sector size in bytes for generic formats",
        256, 16384, 2048,
        (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));
}

/*
 * set/get gobject properties.
 */

void
GstMplexJob::getProperty (guint prop_id, GValue * value)
{
    switch (prop_id) {
        case ARG_FORMAT:
            g_value_set_enum (value, mux_format);
            break;
        case ARG_MUX_BITRATE:
            /* convert from bytes back to bits */
            g_value_set_int (value, (data_rate * 8) / 1000);
            break;
        case ARG_VBR:
            g_value_set_boolean (value, VBR);
            break;
        case ARG_SYSTEM_HEADERS:
            g_value_set_boolean (value, always_system_headers);
            break;
    }
}

```

```

case ARG_SPLIT_SEQUENCE:
    g_value_set_boolean (value, multifile_segment);
    break;
case ARG_SEGMENT_SIZE:
    g_value_set_int (value, max_segment_size);
    break;
case ARG_PACKETS_PER_PACK:
    g_value_set_int (value, packets_per_pack);
    break;
case ARG_SECTOR_SIZE:
    g_value_set_int (value, sector_size);
    break;
case ARG_BUFSIZE:
    g_value_set_int (value, bufsize);
    break;
default:
    break;
}
}

void
GstMplexJob::setProperty (guint prop_id, const GValue * value)
{
switch (prop_id) {
case ARG_FORMAT:
    mux_format = g_value_get_enum (value);
    break;
case ARG_MUX_BITRATE:
    /* data_rate expects bytes (don't ask me why the property itself is
    * in bits, I'm just staying compatible to mjpegtools options), and
    * rounded up to 50-bytes. */
    data_rate = ((g_value_get_int (value) * 1000 / 8 + 49) / 50) * 50;
    break;
case ARG_VBR:
    VBR = g_value_get_boolean (value);
    break;
case ARG_SYSTEM_HEADERS:
    always_system_headers = g_value_get_boolean (value);
    break;
case ARG_SPLIT_SEQUENCE:
    multifile_segment = g_value_get_boolean (value);
    break;
case ARG_SEGMENT_SIZE:
    max_segment_size = g_value_get_int (value);
    break;
case ARG_PACKETS_PER_PACK:
    packets_per_pack = g_value_get_int (value);
    break;

```

```

case ARG_SECTOR_SIZE:
    sector_size = g_value_get_int (value);
    break;
case ARG_BUFSIZE:
    bufsize = g_value_get_int (value);
    break;
default:
    break;
}
}
/* GStreamer mplex (mjpegtools) wrapper
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* gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper
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*/

#ifndef __GST_MPLEXJOB_H__
#define __GST_MPLEXJOB_H__

#include <glib-object.h>
#include <interact.hpp>

class GstMplexJob : public MultiplexJob {
public:
    GstMplexJob (void);

    /* gobject properties */
    static void initProperties (GObjectClass *klass);

    /* set/get gobject properties */
    void getProperty (guint    prop_id,
                     GValue   *value);
    void setProperty (guint    prop_id,

```

```

    const GValue *value);

int bufsize;
};

#endif /* __GST_MPLEXJOB_H__ */
/* GStreamer mplex (mjpegtools) wrapper
 * (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
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 */

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include <string.h>

#include "gstmplex.hh"
#include "gstmplexoutputstream.hh"

/*
 * Class init functions.
 */

GstMplexOutputStream::GstMplexOutputStream (GstMplex * _element, GstPad * _pad):
OutputStream ()
{
    mplex = _element;
    pad = _pad;
    size = 0;
}

```



```

/*
 * Open/close. Basically 'no-op's (close() sets EOS).
 *
 * Open (): -1 means failure, 0 means success.
 */

int
GstMplexOutputStream::Open (void)
{
    return 0;
}

void
GstMplexOutputStream::Close (void)
{
    GST_MPLEX_MUTEX_LOCK (mplex);
    GST_DEBUG_OBJECT (mplex, "closing stream and sending eos");
    gst_pad_push_event (pad, gst_event_new_eos ());
    /* notify chain there is no more need to supply buffers */
    mplex->eos = TRUE;
    GST_MPLEX_SIGNAL_ALL (mplex);
    GST_MPLEX_MUTEX_UNLOCK (mplex);
}

/*
 * Get size of current segment.
 */

#if GST_MJPEGTOOLS_API >= 10900
uint64_t
GstMplexOutputStream::SegmentSize (void)
#else
off_t
GstMplexOutputStream::SegmentSize (void)
#endif
{
    return size;
}

/*
 * Next segment; not really supported.
 */

void
GstMplexOutputStream::NextSegment (void)
{
    size = 0;
}

```

```

GST_WARNING_OBJECT (mplex, "multiple file output is not supported");
/* FIXME: no such filesink behaviour to be expected */
}

/*
 * Write data.
 */

void
GstMplexOutputStream::Write (guint8 * data, guint len)
{
    GstBuffer *buf;

    buf = gst_buffer_new_and_alloc (len);
    memcpy (GST_BUFFER_DATA (buf), data, len);

    size += len;
    GST_MPLEX_MUTEX_LOCK (mplex);
    gst_buffer_set_caps (buf, GST_PAD_CAPS (pad));
    mplex->srcresult = gst_pad_push (pad, buf);
    GST_MPLEX_MUTEX_UNLOCK (mplex);
}

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 */

#ifdef __GST_MPLEXOUTPUTSTREAM_H__
#define __GST_MPLEXOUTPUTSTREAM_H__

```

```

#include <gst/gst.h>
#include <mjpeg_types.h>
#include <outputstrm.hpp>

#include "gstmux.h"

class GstMplexOutputStream : public OutputStream {
public:
    GstMplexOutputStream (GstMplex *element, GstPad *pad);

    /* open/close. Basically 'no-op's (close() sets EOS). */
    int Open (void);
    void Close (void);

    /* get size of current segment */
#ifdef GST_MJPEGTOOLS_API >= 10900
    uint64_t SegmentSize (void);
#else
    off_t SegmentSize (void);
#endif

    /* next segment */
    void NextSegment (void);

    /* write data */
    void Write (guint8 *data, guint len);

private:
    GstMplex *mplex;
    GstPad *pad;
    guint64 size;
};

#endif /* __GST_MPLEXOUTPUTSTREAM_H__ */

```

1.112 gstreamer-plugins-base 0.10.35.1

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[This is the first released version of the library GPL. It is

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
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```

```
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```

```
*
```

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- */

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aaencode	aalib	(http://sourceforge.net/projects/aa-project/)
cdparanoia	libcdparanoia	(http://www.xiph.org/paranoia/)
dtsdec	libdts	(http://www.videolan.org/dtsdec.html)
dvdnavsrc	libdvdnav	(http://dvd.sourceforge.net/)
dxr3		(http://dxr3.sourceforge.net/)
icecastsend	libshout	(http://www.icecast.org)
mad	libmad	(http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec	libmpeg2	(http://libmpeg2.sourceforge.net/)
mpeg2enc	libmpeg2enc	(http://mjpeg.sourceforge.net/)
mplex	libmplex	(http://mjpeg.sourceforge.net/)
siddec	libsidplay 1.36	(http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/ , http://sourceforge.net/projects/sidplay2/)
trm	libmusicbrainz	(http://www.musicbrainz.org/)
xine	libxine	(http://xinehq.de/)

xvid libxvidcore (<http://www.xvid.org/>)

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dvdreadsrc libdvdread (<http://www.dtek.chalmers.se/groups/dvd/>)

jack libjack (<http://jackit.sourceforge.net/>)

 Note libjack is LGPL, but plugin is GPL.

monoscope None (Algorithm by Ralph Loader, Joerg Walter,
 Richard Boulton, and Andy Lo A Foe)

rtjpeg None (Erik Walthinsen's algorithm)

rtp None (<http://www.linphone.org/ortp/>)

synaesthesia (<http://www.logarithmic.net/pfh/synaesthesia>)

system_encode None (Algorithm by Chrisoph Moar, Wim Tayman's and
 Erik Walthinsen)

vbidec None (Algorithm by Billy Biggs, Doug Bell,
 Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

alsa als (<http://alsa-project.org/>)

artsdsink aRts (<http://arts-project.org/>)

cacasink libcaca (<http://sam.zoy.org/projects/libcaca/>)

colorspace libcolorspace

dvdec libdv (<http://libdv.sourceforge.net/>)

esdmon,esdsink libesd (<ftp.gnome.org/pub/GNOME/stable/sources/esound/>)

faac libfaac (<http://www.audiocoding.com/modules/mydownloads/>)

fameenc libfame (<http://fame.sourceforge.net/>)

ffmpeg ffmpeg (<http://ffmpeg.sourceforge.net/>)

gdkpixbuf GTK+ (<http://www.gtk.org/>)

gnomevfs gnome-vfs (<ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/>)

gst_arts aRts (<http://arts-project.org/>)

gst1394 libraw1394 (<http://www.linux1394.org/>)

gstaf libaudiofile (<http://www.68k.org/~michael/audiofile/>)

gstsf libsndfile (<http://www.mega-nerd.com/libsndfile/>)

hermescolorspace Hermes (<http://www.clanlib.org/hermes/>)

kio KDE (<http://www.kde.org/>)

ladspa (<http://www.ladspa.org/>)

lame libmp3lame (<http://lame.sourceforge.net/>)

libvisual libvisual (<http://libvisual.sourceforge.net/>)

matroska (<http://www.matroska.org/>)

mikmod libmikmod (<http://mikmod.raphnet.net/>)

ossaudio (<http://www.opensound.com/>)

qcamsrc

rfbenc librfb

sdlvideosink libSDL (<http://www.libsdl.org/>)

shout2send libshout2 (<http://www.icecast.org/>)

smoothwave

swfdec (<http://swfdec.sourceforge.net/>)

tarkin (<http://svn.xiph.org/trunk/tarkin/>)
textoverlay pango (<http://www.pango.org/>)
dirac (<http://www.bbc.co.uk/rd/projects/dirac/>)
effectv (Our ports was relicensed)(<http://effectv.sourceforge.net/>)
musepack (<http://www.musepack.net/>)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)
vorbis libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)
gsttheora libtheora (<http://www.theora.org/>)
speex (<http://www.speex.org/>)
flac libFLAC (<http://flac.sourceforge.net/>)

Plugins based on libraries with other free licenses:

ximagesink libXv
xvimagesink libXv
- license: MIT X11 / X Consortium license

gsm libgsm
- license MIT license <http://kbs.cs.tu-berlin.de/~jutta/toast.html>

festival (<http://www.cstr.ed.ac.uk/projects/festival/>)
- license: <http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml>

jpeg (<http://www.ijg.org/>)
- license: IJG license

nas (<http://radscan.com/nas.html>)
- license: NAS license

snapshot libpng (<http://www.libpng.org/pub/png/>)
- license: PNG license

mngdec/mngenc libmng (<http://gjuyn.xs4all.nl/libmng>)
- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (<http://www.divx.com/>)
osxaudio (<http://www.apple.com/macosx/>)
sunaudiosink (<http://www.sun.com/>)

Unsure:

faad libfaad (<http://www.audiocoding.com/>)
faad's license depends on its major version :
- for FAAD1 : it is LGPL

- for FAAD2 : it is GPL

look at these pages for more information on licenses :

<http://www.audiocoding.com/modules/wiki/?page=FAAD2>

<http://www.audiocoding.com/modules/wiki/?page=FAAC>

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

1.113 gstreamer-plugins-good 0.10.30.1

1.113.1 Available under license :

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Version 2.1, February 1999

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```
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```

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

```
/* GStreamer
```

```
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
```

```
*
```

```
* EffecTV:
```

```
* Copyright (C) 2001 FUKUCHI Kentarou
```

```
*
```

```
* EffecTV is free software. We release this product under the terms of the  
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```

```
*
```

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```

```
*/
```

This is a demuxer supporting a subset of the Quicktime video container format developed by Apple. Apple and others have some patents on some features of the Quicktime container format in regards to technologies such as QuicktimeVR and RTP hinting. Due to that be aware that if ever such features are added to this demuxer it would need to be moved to the -ugly module or those features need to come as add-in functionality stored in another module.

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GStreamer is developed under the terms of the LGPL (see LICENSE file for details).

Some of our plugins however rely on libraries which are available under other licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

a52dec	liba52	(http://liba52.sourceforge.net/)
aasink	aalib	(http://sourceforge.net/projects/aa-project/)
cdparanoia	libcdparanoia	(http://www.xiph.org/paranoia/)
dtsdec	libdts	(http://www.videolan.org/dtsdec.html)
dvdnavsrc	libdvdnav	(http://dvd.sourceforge.net/)
dxr3		(http://dxr3.sourceforge.net/)
icecastsend	libshout	(http://www.icecast.org)
mad	libmad	(http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec	libmpeg2	(http://libmpeg2.sourceforge.net/)
mpeg2enc	libmpeg2enc	(http://mjpeg.sourceforge.net/)
mplex	libmplex	(http://mjpeg.sourceforge.net/)
siddec	libsidplay 1.36	(http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/ , http://sourceforge.net/projects/sidplay2/)
trm	libmusicbrainz	(http://www.musicbrainz.org/)
xine	libxine	(http://xinehq.de/)
xvid	libxvidcore	(http://www.xvid.org/)

Plugins derived from GPL code are as follows:

dvdreadsrc	libdvdread	(http://www.dtek.chalmers.se/groups/dvd/)
jack	libjack	(http://jackit.sourceforge.net/) Note libjack is LGPL, but plugin is GPL.
monoscope	None	(Algorithm by Ralph Loader, Joerg Walter, Richard Boulton, and Andy Lo A Foe)
rtjpeg	None	(Erik Walthinsen's algorithm)
rtp	None	(http://www.linphone.org/ortp/)
synaesthesia		(http://www.logarithmic.net/pfh/synaesthesia)
system_encode	None	(Algorithm by Chrisoph Moar, Wim Tayman's and Erik Walthinsen)
vbidec	None	(Algorithm by Billy Biggs, Doug Bell, Erik Walthinsen and David I. Lehn)

Plugins which use a LGPL library are as follows:

alsa	alsa	(http://alsa-project.org/)
artsdsink	aRts	(http://arts-project.org/)
cacasink	libcaca	(http://sam.zoy.org/projects/libcaca/)
colorspacecs	libcolorspace	
dvdec	libdv	(http://libdv.sourceforge.net/)
esdmon,esdsink	libesd	(ftp.gnome.org/pub/GNOME/stable/sources/esound/)
faac	libfaac	(http://www.audiocoding.com/modules/mydownloads/)
fameenc	libfame	(http://fame.sourceforge.net/)
ffmpeg	ffmpeg	(http://ffmpeg.sourceforge.net/)
gdkpixbuf	GTK+	(http://www.gtk.org/)
gnomevfs	gnome-vfs	(ftp.gnome.org/pub/GNOME/stable/sources/gnome-vfs/)
gst_arts	aRts	(http://arts-project.org/)

gst1394 libraw1394 (<http://www.linux1394.org/>)
 gstaf libaudiofile (<http://www.68k.org/~michael/audiofile/>)
 gstsfb libsndfile (<http://www.mega-nerd.com/libsndfile/>)
 hermescolorspace Hermes (<http://www.clanlib.org/hermes/>)
 kio KDE (<http://www.kde.org/>)
 ladspa (<http://www.ladspa.org/>)
 lame libbmp3lame (<http://lame.sourceforge.net/>)
 libvisual libvisual (<http://libvisual.sourceforge.net/>)
 matroska (<http://www.matroska.org/>)
 mikmod libmikmod (<http://mikmod.raphnet.net/>)
 ossaudio (<http://www.opensound.com/>)
 qcamsrc
 rfbenc librfb
 sdlvideosink libsdl (<http://www.libsdl.org/>)
 shout2send libshout2 (<http://www.icecast.org/>)
 smoothwave
 swfdec (<http://swfdec.sourceforge.net/>)
 tarkin (<http://svn.xiph.org/trunk/tarkin/>)
 textoverlay pango (<http://www.pango.org/>)
 dirac (<http://www.bbc.co.uk/rd/projects/dirac/>)
 effectv (Our ports was relicensed)(<http://effectv.sourceforge.net/>)
 musepack (<http://www.musepack.net/>)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)
 vorbis libogg/libvorbis (<http://www.xiph.org/ogg/vorbis/>)
 gsttheora libtheora (<http://www.theora.org/>)
 speex (<http://www.speex.org/>)
 flac libFLAC (<http://flac.sourceforge.net/>)

Plugins based on libraries with other free licenses:

ximagesink libXv
 xvimagesink libXv
 - license: MIT X11 / X Consortium license

 gsm libgsm
 - license MIT license <http://kbs.cs.tu-berlin.de/~jutta/toast.html>

 festival (<http://www.cstr.ed.ac.uk/projects/festival/>)
 - license: <http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml>

 jpeg (<http://www.ijg.org/>)
 - license: IJG license

 nas (<http://radscan.com/nas.html>)
 - license: NAS license

snapshot libpng (<http://www.libpng.org/pub/png/>)

- license: PNG license

mngdec/mngenc libmng (<http://gjuyn.xs4all.nl/libmng>)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (<http://www.divx.com/>)

osxaudio (<http://www.apple.com/macosx/>)

sunaudiosink (<http://www.sun.com/>)

Unsure:

faad libfaad (<http://www.audiocoding.com/>)

faad's license depends on its major version :

- for FAAD1 : it is LGPL

- for FAAD2 : it is GPL

look at these pages for more information on licenses :

<http://www.audiocoding.com/modules/wiki/?page=FAAD2>

<http://www.audiocoding.com/modules/wiki/?page=FAAC>

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

/*

* GStreamer

* Copyright (C) 2007 Sebastian Drge <slomo@circular-chaos.org>

* Copyright (C) 2006 Stefan Kost <ensonico@users.sf.net>

*

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* Free Software Foundation, Inc., 59 Temple Place - Suite 330,

* Boston, MA 02111-1307, USA.

*/

/**

* SECTION:element-audioamplify

*

```

* Amplifies an audio stream by a given factor and allows the selection of different clipping modes.
* The difference between the clipping modes is best evaluated by testing.
*
* <refsect2>
* <title>Example launch line</title>
* [[
* gst-launch audiotestsrc wave=saw ! audioamplify amplification=1.5 ! alsasink
* gst-launch filesrc location="melo1.ogg" ! oggdemux ! vorbisdec ! audioconvert ! audioamplify amplification=1.5
method=wrap-negative ! alsasink
* gst-launch audiotestsrc wave=saw ! audioconvert ! audioamplify amplification=1.5 method=wrap-positive !
audioconvert ! alsasink
* ]]
* </refsect2>
*/

```

```

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

```

```

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
#include <gst/audio/gstaudiofilter.h>
#include <gst/controller/gstcontroller.h>

```

```

#include "audioamplify.h"

```

```

#define GST_CAT_DEFAULT gst_audio_amplify_debug
GST_DEBUG_CATEGORY_STATIC (GST_CAT_DEFAULT);

```

```

/* Filter signals and args */

```

```

enum
{
/* FILL ME */
LAST_SIGNAL
};

```

```

enum
{
PROP_0,
PROP_AMPLIFICATION,
PROP_CLIPPING_METHOD
};

```

```

enum
{
METHOD_CLIP = 0,
METHOD_WRAP_NEGATIVE,

```

```

METHOD_WRAP_POSITIVE,
METHOD_NOCLIP,
NUM_METHODS
};

#define GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD (gst_audio_amplify_clipping_method_get_type
())
static GType
gst_audio_amplify_clipping_method_get_type (void)
{
    static GType gtype = 0;

    if (gtype == 0) {
        static const GEnumValue values[] = {
            {METHOD_CLIP, "Normal clipping (default)", "clip"},
            {METHOD_WRAP_NEGATIVE,
             "Push overdriven values back from the opposite side",
             "wrap-negative"},
            {METHOD_WRAP_POSITIVE, "Push overdriven values back from the same side",
             "wrap-positive"},
            {METHOD_NOCLIP, "No clipping", "none"},
            {0, NULL, NULL}
        };
    };

    /* FIXME 0.11: rename to GstAudioAmplifyClippingMethod */
    gtype = g_enum_register_static ("GstAudioPanoramaClippingMethod", values);
}
return gtype;
}

#define ALLOWED_CAPS
"audio/x-raw-int,"
" depth=(int)8,"
" width=(int)8,"
" endianness=(int)BYTE_ORDER,"
" signed=(bool)TRUE,"
" rate=(int)[1,MAX],"
" channels=(int)[1,MAX]; "
"audio/x-raw-int,"
" depth=(int)16,"
" width=(int)16,"
" endianness=(int)BYTE_ORDER,"
" signed=(bool)TRUE,"
" rate=(int)[1,MAX],"
" channels=(int)[1,MAX]; "
"audio/x-raw-int,"
" depth=(int)32,"
" width=(int)32,"

```



```

" endianness=(int)BYTE_ORDER,"
" signed=(bool)TRUE,"
" rate=(int)[1,MAX],"
" channels=(int)[1,MAX]; "
"audio/x-raw-float,"
" width=(int){32,64},"
" endianness=(int)BYTE_ORDER,"
" rate=(int)[1,MAX],"
" channels=(int)[1,MAX]"

#define DEBUG_INIT(bla) \
GST_DEBUG_CATEGORY_INIT (gst_audio_amplify_debug, "audioamplify", 0, "audioamplify element");

GST_BOILERPLATE_FULL (GstAudioAmplify, gst_audio_amplify, GstAudioFilter,
GST_TYPE_AUDIO_FILTER, DEBUG_INIT);

static gboolean gst_audio_amplify_set_process_function (GstAudioAmplify *
filter, gint clipping, gint format, gint width);
static void gst_audio_amplify_set_property (GObject * object, guint prop_id,
const GValue * value, GParamSpec * pspec);
static void gst_audio_amplify_get_property (GObject * object, guint prop_id,
GValue * value, GParamSpec * pspec);

static gboolean gst_audio_amplify_setup (GstAudioFilter * filter,
GstRingBufferSpec * format);
static GstFlowReturn gst_audio_amplify_transform_ip (GstBaseTransform * base,
GstBuffer * buf);

#define MIN_gint8 G_MININT8
#define MAX_gint8 G_MAXINT8
#define MIN_gint16 G_MININT16
#define MAX_gint16 G_MAXINT16
#define MIN_gint32 G_MININT32
#define MAX_gint32 G_MAXINT32

#define MAKE_INT_FUNCS(type,largetype)
static void
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter,
void * data, guint num_samples)
{
type *d = data;

while (num_samples--) {
largetype val = *d * filter->amplification;
*d++ = CLAMP (val, MIN_##type, MAX_##type);
}
}
static void

```

```

gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify * filter, \
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--) {
        largetype val = *d * filter->amplification;
        if (val > MAX_##type)
            val = MIN_##type + (val - MIN_##type) % ((largetype) MAX_##type + 1 - \
                MIN_##type);
        else if (val < MIN_##type)
            val = MAX_##type - (MAX_##type - val) % ((largetype) MAX_##type + 1 - \
                MIN_##type);
        *d++ = val;
    }
}

static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, \
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--) {
        largetype val = *d * filter->amplification;
        do {
            if (val > MAX_##type)
                val = MAX_##type - (val - MAX_##type);
            else if (val < MIN_##type)
                val = MIN_##type + (MIN_##type - val);
            else
                break;
        } while (1);
        *d++ = val;
    }
}

static void
gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter, \
    void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--)
        *d++ *= filter->amplification;
}

#define MAKE_FLOAT_FUNCS(type)
static void
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter, \

```

```

void * data, guint num_samples)
{
type *d = data;

while (num_samples--) {
type val = *d* filter->amplification;
*d++ = CLAMP (val, -1.0, +1.0);
}
}
static void
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify *
filter, void * data, guint num_samples)
{
type *d = data;

while (num_samples--) {
type val = *d * filter->amplification;
do {
if (val > 1.0)
val = -1.0 + (val - 1.0);
else if (val < -1.0)
val = 1.0 - (1.0 - val);
else
break;
} while (1);
*d++ = val;
}
}
static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, \
void * data, guint num_samples)
{
type *d = data;

while (num_samples--) {
type val = *d* filter->amplification;
do {
if (val > 1.0)
val = 1.0 - (val - 1.0);
else if (val < -1.0)
val = -1.0 + (-1.0 - val);
else
break;
} while (1);
*d++ = val;
}
}
static void

```

```

gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter, \
    void * data, guint num_samples) \
{ \
    type *d = data; \
\
    while (num_samples--) \
        *d++ *= filter->amplification; \
}

/* *INDENT-OFF* */
MAKE_INT_FUNCS (gint8,gint)
MAKE_INT_FUNCS (gint16,gint)
MAKE_INT_FUNCS (gint32,gint64)
MAKE_FLOAT_FUNCS (gfloat)
MAKE_FLOAT_FUNCS (gdouble)
/* *INDENT-ON* */

/* GObject vmethod implementations */

static void
gst_audio_amplify_base_init (gpointer klass)
{
    GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
    GstCaps *caps;

    gst_element_class_set_details_simple (element_class, "Audio amplifier",
        "Filter/Effect/Audio",
        "Amplifies an audio stream by a given factor",
        "Sebastian Drge <slomo@circular-chaos.org>");

    caps = gst_caps_from_string (ALLOWED_CAPS);
    gst_audio_filter_class_add_pad_templates (GST_AUDIO_FILTER_CLASS (klass),
        caps);
    gst_caps_unref (caps);
}

static void
gst_audio_amplify_class_init (GstAudioAmplifyClass * klass)
{
    GObjectClass *gobject_class;

    gobject_class = (GObjectClass *) klass;
    gobject_class->set_property = gst_audio_amplify_set_property;
    gobject_class->get_property = gst_audio_amplify_get_property;

    g_object_class_install_property (gobject_class, PROP_AMPLIFICATION,
        g_param_spec_float ("amplification", "Amplification",
            "Factor of amplification", -G_MAXFLOAT, G_MAXFLOAT,

```

```

1.0,
G_PARAM_READWRITE | GST_PARAM_CONTROLLABLE | G_PARAM_STATIC_STRINGS));

/**
 * GstAudioAmplify:clipping-method
 *
 * Clipping method: clip mode set values higher than the maximum to the
 * maximum. The wrap-negative mode pushes those values back from the
 * opposite side, wrap-positive pushes them back from the same side.
 *
 */
g_object_class_install_property (gobject_class, PROP_CLIPPING_METHOD,
    g_param_spec_enum ("clipping-method", "Clipping method",
        "Selects how to handle values higher than the maximum",
        GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD, METHOD_CLIP,
        G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));

GST_AUDIO_FILTER_CLASS (klass)->setup =
    GST_DEBUG_FUNCPTR (gst_audio_amplify_setup);
GST_BASE_TRANSFORM_CLASS (klass)->transform_ip =
    GST_DEBUG_FUNCPTR (gst_audio_amplify_transform_ip);
}

static void
gst_audio_amplify_init (GstAudioAmplify * filter, GstAudioAmplifyClass * klass)
{
    filter->amplification = 1.0;
    gst_audio_amplify_set_process_function (filter, METHOD_CLIP,
        GST_BUFTYPE_LINEAR, 16);
    gst_base_transform_set_in_place (GST_BASE_TRANSFORM (filter), TRUE);
    gst_base_transform_set_gap_aware (GST_BASE_TRANSFORM (filter), TRUE);
}

static GstAudioAmplifyProcessFunc
gst_audio_amplify_process_function (gint clipping, gint format, gint width)
{
    static const struct process
    {
        gint format;
        gint width;
        gint clipping;
        GstAudioAmplifyProcessFunc func;
    } process[] = {
        {
            GST_BUFTYPE_FLOAT, 32, METHOD_CLIP,
            gst_audio_amplify_transform_gfloat_clip}, {
            GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_NEGATIVE,
            gst_audio_amplify_transform_gfloat_wrap_negative}, {

```

```

GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gfloat_wrap_positive}, {
GST_BUFTYPE_FLOAT, 32, METHOD_NOCLIP,
    gst_audio_amplify_transform_gfloat_noclip}, {
GST_BUFTYPE_FLOAT, 64, METHOD_CLIP,
    gst_audio_amplify_transform_gdouble_clip}, {
GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gdouble_wrap_negative}, {
GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gdouble_wrap_positive}, {
GST_BUFTYPE_FLOAT, 64, METHOD_NOCLIP,
    gst_audio_amplify_transform_gdouble_noclip}, {
GST_BUFTYPE_LINEAR, 8, METHOD_CLIP, gst_audio_amplify_transform_gint8_clip}, {
GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint8_wrap_negative}, {
GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint8_wrap_positive}, {
GST_BUFTYPE_LINEAR, 8, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint8_noclip}, {
GST_BUFTYPE_LINEAR, 16, METHOD_CLIP,
    gst_audio_amplify_transform_gint16_clip}, {
GST_BUFTYPE_LINEAR, 16, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint16_wrap_negative}, {
GST_BUFTYPE_LINEAR, 16, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint16_wrap_positive}, {
GST_BUFTYPE_LINEAR, 16, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint16_noclip}, {
GST_BUFTYPE_LINEAR, 32, METHOD_CLIP,
    gst_audio_amplify_transform_gint32_clip}, {
GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint32_wrap_negative}, {
GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint32_wrap_positive}, {
GST_BUFTYPE_LINEAR, 32, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint32_noclip}, {
    0, 0, 0, NULL}
};
const struct process *p;

for (p = process; p->func; p++)
    if (p->format == format && p->width == width && p->clipping == clipping)
        return p->func;
return NULL;
}

static gboolean
gst_audio_amplify_set_process_function (GstAudioAmplify * filter, gint
    clipping_method, gint format, gint width)

```

```

{
GstAudioAmplifyProcessFunc process;

/* set processing function */

process = gst_audio_amplify_process_function (clipping_method, format, width);
if (!process) {
    GST_DEBUG ("wrong format");
    return FALSE;
}

filter->process = process;
filter->clipping_method = clipping_method;
filter->format = format;
filter->width = width;

return TRUE;
}

static void
gst_audio_amplify_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);

switch (prop_id) {
case PROP_AMPLIFICATION:
    filter->amplification = g_value_get_float (value);
    gst_base_transform_set_passthrough (GST_BASE_TRANSFORM (filter),
        filter->amplification == 1.0);
    break;
case PROP_CLIPPING_METHOD:
    gst_audio_amplify_set_process_function (filter, g_value_get_enum (value),
        filter->format, filter->width);
    break;
default:
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}

static void
gst_audio_amplify_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec)
{
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);

switch (prop_id) {

```

```

case PROP_AMPLIFICATION:
    g_value_set_float (value, filter->amplification);
    break;
case PROP_CLIPPING_METHOD:
    g_value_set_enum (value, filter->clipping_method);
    break;
default:
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}

/* GstAudioFilter vmethod implementations */
static gboolean
gst_audio_amplify_setup (GstAudioFilter * base, GstRingBufferSpec * format)
{
    GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);

    return gst_audio_amplify_set_process_function (filter,
        filter->clipping_method, format->type, format->width);
}

/* GstBaseTransform vmethod implementations */
static GstFlowReturn
gst_audio_amplify_transform_ip (GstBaseTransform * base, GstBuffer * buf)
{
    GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);
    guint num_samples;
    GstClockTime timestamp, stream_time;

    timestamp = GST_BUFFER_TIMESTAMP (buf);
    stream_time =
        gst_segment_to_stream_time (&base->segment, GST_FORMAT_TIME, timestamp);

    GST_DEBUG_OBJECT (filter, "sync to %" GST_TIME_FORMAT,
        GST_TIME_ARGS (timestamp));

    if (GST_CLOCK_TIME_IS_VALID (stream_time))
        gst_object_sync_values (G_OBJECT (filter), stream_time);

    num_samples =
        GST_BUFFER_SIZE (buf) / (GST_AUDIO_FILTER (filter)->format.width / 8);

    if (gst_base_transform_is_passthrough (base) ||
        G_UNLIKELY (GST_BUFFER_FLAG_IS_SET (buf, GST_BUFFER_FLAG_GAP)))
        return GST_FLOW_OK;

    filter->process (filter, GST_BUFFER_DATA (buf), num_samples);
}

```



```

return GST_FLOW_OK;
}
/*
 * GStreamer
 * Copyright (C) 2007 Sebastian Drge <slomo@circular-chaos.org>
 * Copyright (C) 2006 Stefan Kost <enonic@users.sf.net>
 *
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 *
 * You should have received a copy of the GNU Library General Public
 * License along with this library; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

#ifndef __GST_AUDIO_AMPLIFY_H__
#define __GST_AUDIO_AMPLIFY_H__

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
#include <gst/audio/gstaudiofilter.h>

G_BEGIN_DECLS
#define GST_TYPE_AUDIO_AMPLIFY      (gst_audio_amplify_get_type())
#define GST_AUDIO_AMPLIFY(obj)      (G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplify))
#define GST_IS_AUDIO_AMPLIFY(obj)   (G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_CAST((klass)
,GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
#define GST_IS_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE((klass)
,GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_GET_CLASS(obj) (G_TYPE_INSTANCE_GET_CLASS((obj)
,GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
typedef struct _GstAudioAmplify GstAudioAmplify;
typedef struct _GstAudioAmplifyClass GstAudioAmplifyClass;

typedef void (*GstAudioAmplifyProcessFunc) (GstAudioAmplify *, void *, guint);

```

```

struct _GstAudioAmplify
{
    GstAudioFilter audiofilter;

    gfloat amplification;

    /* < private > */
    GstAudioAmplifyProcessFunc process;
    gint clipping_method;
    gint format;
    gint width;
};

struct _GstAudioAmplifyClass
{
    GstAudioFilterClass parent;
};

GType gst_audio_amplify_get_type (void);

G_END_DECLS
#endif /* __GST_AUDIO_AMPLIFY_H__ */

```

1.114 gzip 1.3.12 :24.e16

1.114.1 Available under license :

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1.116 http-parser 2.0

:4.20121128gitcd01361.e16

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1.117 httpclient 4.2.3

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1.118 httpcomponents-httpcore 4.2.2

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<one line to give the program's name and a brief idea of what it does.>
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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under certain conditions; type 'show c' for details.
```

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```
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```

```
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Ty Coon, President of Vice
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1.121 icu 4.2.1 :9.1.el6_2

1.121.1 Available under license :

ICU License - ICU 1.8.1 and later

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1.122 incron 0.5.9 :2009-06-21

1.122.1 Available under license :

inotify cron system

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1.127 iputils 20071127 :24.el6

1.128 Jackson 1.9.2

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1.135 jackson-mapper-asl 1.9.2

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free

libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Ty Coon, President of Vice

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Version 3, 19 November 2007

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TERMS AND CONDITIONS

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
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Corresponding Source conveyed, and Installation Information provided,

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*/

```
package java.security;
```

```
/**
```

```
* Abstract class for representing access to a system resource.  
* All permissions have a name (whose interpretation depends on the subclass),  
* as well as abstract functions for defining the semantics of the  
* particular Permission subclass.  
*  
* <p>Most Permission objects also include an "actions" list that tells the actions  
* that are permitted for the object. For example,  
* for a java.io.FilePermission object, the permission name is  
* the pathname of a file (or directory), and the actions list  
* (such as "read, write") specifies which actions are granted for the  
* specified file (or for files in the specified directory).  
* The actions list is optional for Permission objects, such as  
* java.lang.RuntimePermission,  
* that don't need such a list; you either have the named permission (such  
* as "system.exit") or you don't.  
*  
* <p>An important method that must be implemented by each subclass is  
* the implies method to compare Permissions. Basically,  
* "permission p1 implies permission p2" means that  
* if one is granted permission p1, one is naturally granted permission p2.  
* Thus, this is not an equality test, but rather more of a  
* subset test.  
*  
* <P> Permission objects are similar to String objects in that they  
* are immutable once they have been created. Subclasses should not  
* provide methods that can change the state of a permission  
* once it has been created.  
*  
* @see Permissions  
* @see PermissionCollection  
*  
*  
* @author Marianne Mueller  
* @author Roland Schemers  
*/
```

```

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     *
     */

    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * SecurityManager.checkPermission method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     *
     * @param object the object being guarded (currently ignored).
     *
     * @throws SecurityException
     *         if a security manager exists and its
     *         checkPermission method doesn't allow access.
     *
     * @see Guard
     * @see GuardedObject
     * @see SecurityManager#checkPermission
     *
     */
    public void checkGuard(Object object) throws SecurityException {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null) sm.checkPermission(this);
    }

    /**
     * Checks if the specified permission's actions are "implied by"
     * this object's actions.
     * <P>
     * This must be implemented by subclasses of Permission, as they are the
     * only ones that can impose semantics on a Permission object.
     *
     * <p>The implies method is used by the AccessController to determine

```

```
* whether or not a requested permission is implied by another permission that
* is known to be valid in the current execution context.
*
* @param permission the permission to check against.
*
* @return true if the specified permission is implied by this object,
* false if not.
*/
```

```
public abstract boolean implies(Permission permission);
```

```
/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the <code>equals</code> method for making access control
 * decisions; use the <code>implies</code> method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */
```

```
public abstract boolean equals(Object obj);
```

```
/**
 * Returns the hash code value for this Permission object.
 * <P>
 * The required <code>hashCode</code> behavior for Permission Objects is
 * the following: <p>
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * <code>hashCode</code> method
 * must consistently return the same integer. This integer need not
 * remain consistent from one execution of an application to another
 * execution of the same application. <p>
 * <li>If two Permission objects are equal according to the
 * <code>equals</code>
 * method, then calling the <code>hashCode</code> method on each of the
 * two Permission objects must produce the same integer result.
 * </ul>
 *
 * @return a hash code value for this object.
 */
```

```
public abstract int hashCode();
```

```
/**
```

```
* Returns the name of this Permission.  
* For example, in the case of a <code>java.io.FilePermission</code>,  
* the name will be a pathname.  
*  
* @return the name of this Permission.  
*  
*/
```

```
public final String getName() {  
    return name;  
}
```

```
/**  
 * Returns the actions as a String. This is abstract  
 * so subclasses can defer creating a String representation until  
 * one is needed. Subclasses should always return actions in what they  
 * consider to be their  
 * canonical form. For example, two FilePermission objects created via  
 * the following:  
 *  
 * <pre>  
 * perm1 = new FilePermission(p1,"read,write");  
 * perm2 = new FilePermission(p2,"write,read");  
 * </pre>  
 *  
 * both return  
 * "read,write" when the <code>getActions</code> method is invoked.  
 *  
 * @return the actions of this Permission.  
 *  
*/
```

```
public abstract String getActions();
```

```
/**  
 * Returns an empty PermissionCollection for a given Permission object, or null if  
 * one is not defined. Subclasses of class Permission should  
 * override this if they need to store their permissions in a particular  
 * PermissionCollection object in order to provide the correct semantics  
 * when the <code>PermissionCollection.implies</code> method is called.  
 * If null is returned,  
 * then the caller of this method is free to store permissions of this  
 * type in any PermissionCollection they choose (one that uses a Hashtable,  
 * one that uses a Vector, etc).  
 *  
 * @return a new PermissionCollection object for this type of Permission, or  
 * null if one is not defined.  
*/
```

```

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName" "name" "actions"), or
 * ('ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */
public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + "\" \" + name + "\"";
    } else {
        return "(" + getClass().getName() + "\" \" + name +
            "\" \" + actions + "\"";
    }
}
}
}
/**
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 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */

```

```
package java.security.acl;
```

```
/**
```

```
* This interface represents a permission, such as that used to grant  
* a particular type of access to a resource.
```

```
*
```

```
* @author Satish Dharmaraj
```

```
*/
```

```
public interface Permission {
```

```
/**
```

```
* Returns true if the object passed matches the permission represented  
* in this interface.
```

```
*
```

```
* @param another the Permission object to compare with.
```

```
*
```

```
* @return true if the Permission objects are equal, false otherwise
```

```
*/
```

```
public boolean equals(Object another);
```

```
/**
```

```
* Prints a string representation of this permission.
```

```
*
```

```
* @return the string representation of the permission.
```

```
*/
```

```
public String toString();
```

```
}
```

```
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```

```
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```

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* or visit www.oracle.com if you need additional information or have any

* questions.

*/

```
package java.lang;
```

```
import java.io.BufferedInputStream;
```

```
import java.io.BufferedOutputStream;
```

```
import java.io.ByteArrayInputStream;
```

```
import java.io.FileDescriptor;
```

```
import java.io.FileInputStream;
```

```
import java.io.FileOutputStream;
```

```
import java.io.IOException;
```

```
import java.io.InputStream;
```

```
import java.io.OutputStream;
```

```
import java.util.Arrays;
```

```
import java.util.Locale;
```

```
import java.util.concurrent.Executors;
```

```

import java.util.concurrent.Executor;
import java.util.concurrent.ThreadFactory;
import java.security.AccessController;
import static java.security.AccessController.doPrivileged;
import java.security.PrivilegedAction;
import java.security.PrivilegedActionException;
import java.security.PrivilegedExceptionAction;

/**
 * java.lang.Process subclass in the UNIX environment.
 *
 * @author Mario Wolczko and Ross Knippel.
 * @author Konstantin Kladko (ported to BSD)
 * @author Martin Buchholz
 */
final class UNIXProcess extends Process {
    private static final sun.misc.JavaIOFileDescriptorAccess fdAccess
        = sun.misc.SharedSecrets.getJavaIOFileDescriptorAccess();

    private final int pid;
    private int exitcode;
    private boolean hasExited;

    private /* final */ OutputStream stdin;
    private /* final */ InputStream stdout;
    private /* final */ InputStream stderr;

    private static enum LaunchMechanism {
        FORK(1),
        POSIX_SPAWN(2);

        private int value;
        LaunchMechanism(int x) { value = x; }
    };

    /* On BSD, the default is to spawn */
    private static final LaunchMechanism launchMechanism;
    private static byte[] helperpath;

    private static byte[] toCString(String s) {
        if (s == null)
            return null;
        byte[] bytes = s.getBytes();
        byte[] result = new byte[bytes.length + 1];
        System.arraycopy(bytes, 0,
            result, 0,
            bytes.length);
        result[result.length-1] = (byte)0;
    }

```



```

    return result;
}

static {
    launchMechanism = AccessController.doPrivileged(
        new PrivilegedAction<LaunchMechanism>()
        {
            public LaunchMechanism run() {
                String javahome = System.getProperty("java.home");

                helperpath = toCString(javahome + "/lib/jspawnhelper");
                String s = System.getProperty(
                    "jdk.lang.Process.launchMechanism", "posix_spawn");

                try {
                    return LaunchMechanism.valueOf(s.toUpperCase(Locale.ENGLISH));
                } catch (IllegalArgumentException e) {
                    throw new Error(s + " is not a supported " +
                        "process launch mechanism on this platform.");
                }
            }
        });
}

```

```

/* this is for the reaping thread */

```

```

private native int waitForProcessExit(int pid);

```

```

/**

```

```

 * Create a process. Depending on the mode flag, this is done by
 * one of the following mechanisms.

```

```

 * - fork(2) and exec(2)

```

```

 * - posix_spawn(2)

```

```

 *

```

```

 * @param fds an array of three file descriptors.

```

```

 *   Indexes 0, 1, and 2 correspond to standard input,

```

```

 *   standard output and standard error, respectively. On

```

```

 *   input, a value of -1 means to create a pipe to connect

```

```

 *   child and parent processes. On output, a value which

```

```

 *   is not -1 is the parent pipe fd corresponding to the

```

```

 *   pipe which has been created. An element of this array

```

```

 *   is -1 on input if and only if it is not -1 on

```

```

 *   output.

```

```

 * @return the pid of the subprocess

```

```

 */

```

```

private native int forkAndExec(int mode, byte[] helperpath,

```

```

    byte[] prog,

```

```

    byte[] argBlock, int argc,

```

```

    byte[] envBlock, int envc,

```

```

        byte[] dir,
        int[] fds,
        boolean redirectErrorStream)
throws IOException;

/**
 * The thread factory used to create "process reaper" daemon threads.
 */
private static class ProcessReaperThreadFactory implements ThreadFactory {
    private final static ThreadGroup group = getRootThreadGroup();

    private static ThreadGroup getRootThreadGroup() {
        return doPrivileged(new PrivilegedAction<ThreadGroup> () {
            public ThreadGroup run() {
                ThreadGroup root = Thread.currentThread().getThreadGroup();
                while (root.getParent() != null)
                    root = root.getParent();
                return root;
            }
        });
    }

    public Thread newThread(Runnable grimReaper) {
        // Our thread stack requirement is quite modest.
        Thread t = new Thread(group, grimReaper, "process reaper", 32768);
        t.setDaemon(true);
        // A small attempt (probably futile) to avoid priority inversion
        t.setPriority(Thread.MAX_PRIORITY);
        return t;
    }
}

/**
 * The thread pool of "process reaper" daemon threads.
 */
private static final Executor processReaperExecutor =
doPrivileged(new PrivilegedAction<Executor>() {
    public Executor run() {
        return Executors.newCachedThreadPool
            (new ProcessReaperThreadFactory());
    }
});

UNIXProcess(final byte[] prog,
            final byte[] argBlock, final int argc,
            final byte[] envBlock, final int envc,
            final byte[] dir,
            final int[] fds,
            final boolean redirectErrorStream)
throws IOException {

```

```

pid = forkAndExec(launchMechanism.value,
    helperpath,
    prog,
    argBlock, argc,
    envBlock, envc,
    dir,
    fds,
    redirectErrorStream);

try {
    doPrivileged(new PrivilegedExceptionAction<Void>() {
        public Void run() throws IOException {
            initStreams(fds);
            return null;
        }
    });
} catch (PrivilegedActionException ex) {
    throw (IOException) ex.getException();
}
}

static FileDescriptor newFileDescriptor(int fd) {
    FileDescriptor fileDescriptor = new FileDescriptor();
    fdAccess.set(fileDescriptor, fd);
    return fileDescriptor;
}

void initStreams(int[] fds) throws IOException {
    stdin = (fds[0] == -1) ?
        ProcessBuilder.NullOutputStream.INSTANCE :
        new ProcessPipeOutputStream(fds[0]);

    stdout = (fds[1] == -1) ?
        ProcessBuilder.NullInputStream.INSTANCE :
        new ProcessPipeInputStream(fds[1]);

    stderr = (fds[2] == -1) ?
        ProcessBuilder.NullInputStream.INSTANCE :
        new ProcessPipeInputStream(fds[2]);

    processReaperExecutor.execute(new Runnable() {
        public void run() {
            int exitcode = waitForProcessExit(pid);
            UNIXProcess.this.processExited(exitcode);
        }
    });
}

void processExited(int exitcode) {

```

```

synchronized (this) {
    this.exitcode = exitcode;
    hasExited = true;
    notifyAll();
}

if (stdout instanceof ProcessPipeInputStream)
    ((ProcessPipeInputStream) stdout).processExited();

if (stderr instanceof ProcessPipeInputStream)
    ((ProcessPipeInputStream) stderr).processExited();

if (stdin instanceof ProcessPipeOutputStream)
    ((ProcessPipeOutputStream) stdin).processExited();
}

public OutputStream getOutputStream() {
    return stdin;
}

public InputStream getInputStream() {
    return stdout;
}

public InputStream getErrorStream() {
    return stderr;
}

public synchronized int waitFor() throws InterruptedException {
    while (!hasExited) {
        wait();
    }
    return exitcode;
}

public synchronized int exitValue() {
    if (!hasExited) {
        throw new IllegalStateException("process hasn't exited");
    }
    return exitcode;
}

private static native void destroyProcess(int pid);
public void destroy() {
    // There is a risk that pid will be recycled, causing us to
    // kill the wrong process! So we only terminate processes
    // that appear to still be running. Even with this check,
    // there is an unavoidable race condition here, but the window

```

```

// is very small, and Oses try hard to not recycle pids too
// soon, so this is quite safe.
synchronized (this) {
    if (!hasExited)
        destroyProcess(pid);
}
try { stdin.close(); } catch (IOException ignored) {}
try { stdout.close(); } catch (IOException ignored) {}
try { stderr.close(); } catch (IOException ignored) {}
}

private static native void init();

static {
    init();
}

/**
 * A buffered input stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 *
 * This is tricky because we do not want the user-level InputStream to be
 * closed until the user invokes close(), and we need to continue to be
 * able to read any buffered data lingering in the OS pipe buffer.
 */
static class ProcessPipeInputStream extends BufferedInputStream {
    private final Object closeLock = new Object();

    ProcessPipeInputStream(int fd) {
        super(new FileInputStream(newFileDescriptor(fd)));
    }

    private static byte[] drainInputStream(InputStream in)
        throws IOException {
        int n = 0;
        int j;
        byte[] a = null;
        while ((j = in.available()) > 0) {
            a = (a == null) ? new byte[j] : Arrays.copyOf(a, n + j);
            n += in.read(a, n, j);
        }
        return (a == null || n == a.length) ? a : Arrays.copyOf(a, n);
    }

    /** Called by the process reaper thread when the process exits. */
    synchronized void processExited() {
        synchronized (closeLock) {
            try {

```

```

        InputStream in = this.in;
        // this stream is closed if and only if: in == null
        if (in != null) {
            byte[] stragglers = drainInputStream(in);
            in.close();
            this.in = (stragglers == null) ?
                ProcessBuilder.NullInputStream.INSTANCE :
                new ByteArrayInputStream(stragglers);
        }
    } catch (IOException ignored) {}
}

@Override
public void close() throws IOException {
    // BufferedInputStream#close() is not synchronized unlike most other methods.
    // Synchronizing helps avoid race with processExited().
    synchronized (closeLock) {
        super.close();
    }
}

/**
 * A buffered output stream for a subprocess pipe file descriptor
 * that allows the underlying file descriptor to be reclaimed when
 * the process exits, via the processExited hook.
 */
static class ProcessPipeOutputStream extends BufferedOutputStream {
    ProcessPipeOutputStream(int fd) {
        super(new FileOutputStream(newFileDescriptor(fd)));
    }

    /** Called by the process reaper thread when the process exits. */
    synchronized void processExited() {
        OutputStream out = this.out;
        if (out != null) {
            try {
                out.close();
            } catch (IOException ignored) {
                // We know of no reason to get an IOException, but if
                // we do, there's nothing else to do but carry on.
            }
        }
        this.out = ProcessBuilder.NullOutputStream.INSTANCE;
    }
}
}

```

```
#
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# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
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```

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dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf

filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf

filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf

filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

#

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#
```

```
SUNWprivate_1.1 {
```

```
  global:
```

```
    Java_java_nio_MappedByteBuffer_force0;
    Java_java_nio_MappedByteBuffer_isLoaded0;
    Java_java_nio_MappedByteBuffer_load0;
    Java_sun_nio_ch_DatagramChannelImpl_disconnect0;
    Java_sun_nio_ch_DatagramChannelImpl_initIDs;
    Java_sun_nio_ch_DatagramChannelImpl_receive0;
    Java_sun_nio_ch_DatagramChannelImpl_send0;
    Java_sun_nio_ch_DatagramDispatcher_read0;
    Java_sun_nio_ch_DatagramDispatcher_readv0;
    Java_sun_nio_ch_DatagramDispatcher_write0;
    Java_sun_nio_ch_DatagramDispatcher_writev0;
    Java_sun_nio_ch_FileChannelImpl_close0;
    Java_sun_nio_ch_FileChannelImpl_initIDs;
    Java_sun_nio_ch_FileChannelImpl_map0;
    Java_sun_nio_ch_FileChannelImpl_position0;
    Java_sun_nio_ch_FileChannelImpl_transferTo0;
    Java_sun_nio_ch_FileChannelImpl_unmap0;
    Java_sun_nio_ch_FileDispatcherImpl_close0;
    Java_sun_nio_ch_FileDispatcherImpl_closeIntFD;
    Java_sun_nio_ch_FileDispatcherImpl_force0;
    Java_sun_nio_ch_FileDispatcherImpl_init;
    Java_sun_nio_ch_FileDispatcherImpl_lock0;
    Java_sun_nio_ch_FileDispatcherImpl_preClose0;
```

Java_sun_nio_ch_FileDispatcherImpl_pread0;
Java_sun_nio_ch_FileDispatcherImpl_pwrite0;
Java_sun_nio_ch_FileDispatcherImpl_read0;
Java_sun_nio_ch_FileDispatcherImpl_readv0;
Java_sun_nio_ch_FileDispatcherImpl_release0;
Java_sun_nio_ch_FileDispatcherImpl_size0;
Java_sun_nio_ch_FileDispatcherImpl_truncate0;
Java_sun_nio_ch_FileDispatcherImpl_write0;
Java_sun_nio_ch_FileDispatcherImpl_writev0;
Java_sun_nio_ch_FileKey_init;
Java_sun_nio_ch_FileKey_initIDs;
Java_sun_nio_ch_InheritedChannel_close0;
Java_sun_nio_ch_InheritedChannel_dup;
Java_sun_nio_ch_InheritedChannel_dup2;
Java_sun_nio_ch_InheritedChannel_open0;
Java_sun_nio_ch_InheritedChannel_peerAddress0;
Java_sun_nio_ch_InheritedChannel_peerPort0;
Java_sun_nio_ch_InheritedChannel_soType0;
Java_sun_nio_ch_IOUtil_configureBlocking;
Java_sun_nio_ch_IOUtil_drain;
Java_sun_nio_ch_IOUtil_fdVal;
Java_sun_nio_ch_IOUtil_initIDs;
Java_sun_nio_ch_IOUtil_makePipe;
Java_sun_nio_ch_IOUtil_randomBytes;
Java_sun_nio_ch_IOUtil_setfdVal;
Java_sun_nio_ch_KQueue_kqueue;
Java_sun_nio_ch_KQueue_keventRegister;
Java_sun_nio_ch_KQueue_keventPoll;
Java_sun_nio_ch_KQueue_keventSize;
Java_sun_nio_ch_KQueue_identOffset;
Java_sun_nio_ch_KQueue_filterOffset;
Java_sun_nio_ch_KQueue_flagsOffset;
Java_sun_nio_ch_KQueuePort_socketpair;
Java_sun_nio_ch_KQueuePort_interrupt;
Java_sun_nio_ch_KQueuePort_drain1;
Java_sun_nio_ch_KQueuePort_close0;
Java_sun_nio_ch_NativeThread_current;
Java_sun_nio_ch_NativeThread_init;
Java_sun_nio_ch_NativeThread_signal;
Java_sun_nio_ch_Net_canIPv6SocketJoinIPv4Group0;
Java_sun_nio_ch_Net_canJoin6WithIPv4Group0;
Java_sun_nio_ch_Net_socket0;
Java_sun_nio_ch_Net_bind0;
Java_sun_nio_ch_Net_connect0;
Java_sun_nio_ch_Net_listen;
Java_sun_nio_ch_Net_localPort;
Java_sun_nio_ch_Net_localInetAddress;
Java_sun_nio_ch_Net_getIntOption0;

Java_sun_nio_ch_Net_setIntOption0;
 Java_sun_nio_ch_Net_initIDs;
Java_sun_nio_ch_Net_isIPv6Available0;
Java_sun_nio_ch_Net_joinOrDrop4;
Java_sun_nio_ch_Net_blockOrUnblock4;
Java_sun_nio_ch_Net_joinOrDrop6;
Java_sun_nio_ch_Net_blockOrUnblock6;
Java_sun_nio_ch_Net_setInterface4;
Java_sun_nio_ch_Net_getInterface4;
Java_sun_nio_ch_Net_setInterface6;
Java_sun_nio_ch_Net_getInterface6;
Java_sun_nio_ch_Net_shutdown;
 Java_sun_nio_ch_Net_isExclusiveBindAvailable;
 Java_sun_nio_ch_PollArrayWrapper_interrupt;
 Java_sun_nio_ch_PollArrayWrapper_poll0;
 Java_sun_nio_ch_ServerSocketChannelImpl_accept0;
 Java_sun_nio_ch_ServerSocketChannelImpl_initIDs;
 Java_sun_nio_ch_SocketChannelImpl_checkConnect;
Java_sun_nio_ch_SocketChannelImpl_sendOutOfBandData;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_accept0;
Java_sun_nio_ch_UnixAsynchronousServerSocketChannelImpl_initIDs;
Java_sun_nio_ch_UnixAsynchronousSocketChannelImpl_checkConnect;
Java_sun_nio_fs_BsdNativeDispatcher_initIDs;
Java_sun_nio_fs_BsdNativeDispatcher_getfsstat;
Java_sun_nio_fs_BsdNativeDispatcher_fsstatEntry;
Java_sun_nio_fs_BsdNativeDispatcher_endfsstat;
Java_sun_nio_fs_UnixNativeDispatcher_init;
Java_sun_nio_fs_UnixNativeDispatcher_getcwd;
Java_sun_nio_fs_UnixNativeDispatcher_strerror;
Java_sun_nio_fs_UnixNativeDispatcher_dup;
Java_sun_nio_fs_UnixNativeDispatcher_access0;
Java_sun_nio_fs_UnixNativeDispatcher_stat0;
Java_sun_nio_fs_UnixNativeDispatcher_lstat0;
Java_sun_nio_fs_UnixNativeDispatcher_fstat;
Java_sun_nio_fs_UnixNativeDispatcher_fstatat0;
Java_sun_nio_fs_UnixNativeDispatcher_chmod0;
Java_sun_nio_fs_UnixNativeDispatcher_fchmod;
Java_sun_nio_fs_UnixNativeDispatcher_chown0;
Java_sun_nio_fs_UnixNativeDispatcher_lchown0;
Java_sun_nio_fs_UnixNativeDispatcher_fchown;
Java_sun_nio_fs_UnixNativeDispatcher_utimes0;
Java_sun_nio_fs_UnixNativeDispatcher_futimes;
Java_sun_nio_fs_UnixNativeDispatcher_open0;
Java_sun_nio_fs_UnixNativeDispatcher_openat0;
Java_sun_nio_fs_UnixNativeDispatcher_close;
Java_sun_nio_fs_UnixNativeDispatcher_read;
Java_sun_nio_fs_UnixNativeDispatcher_write;
Java_sun_nio_fs_UnixNativeDispatcher_fopen0;

```
Java_sun_nio_fs_UnixNativeDispatcher_fclose;
Java_sun_nio_fs_UnixNativeDispatcher_opendir0;
Java_sun_nio_fs_UnixNativeDispatcher_fdopendir;
Java_sun_nio_fs_UnixNativeDispatcher_readdir;
Java_sun_nio_fs_UnixNativeDispatcher_closedir;
Java_sun_nio_fs_UnixNativeDispatcher_link0;
Java_sun_nio_fs_UnixNativeDispatcher_unlink0;
Java_sun_nio_fs_UnixNativeDispatcher_unlinkat0;
Java_sun_nio_fs_UnixNativeDispatcher_rename0;
Java_sun_nio_fs_UnixNativeDispatcher_renameat0;
Java_sun_nio_fs_UnixNativeDispatcher_mkdir0;
Java_sun_nio_fs_UnixNativeDispatcher_rmdir0;
Java_sun_nio_fs_UnixNativeDispatcher_symlink0;
Java_sun_nio_fs_UnixNativeDispatcher_readlink0;
Java_sun_nio_fs_UnixNativeDispatcher_realpath0;
Java_sun_nio_fs_UnixNativeDispatcher_statvfs0;
Java_sun_nio_fs_UnixNativeDispatcher_pathconf0;
Java_sun_nio_fs_UnixNativeDispatcher_fpathconf;
Java_sun_nio_fs_UnixNativeDispatcher_mknod0;
Java_sun_nio_fs_UnixNativeDispatcher_getpwuid;
Java_sun_nio_fs_UnixNativeDispatcher_getgrgid;
Java_sun_nio_fs_UnixNativeDispatcher_getpwnam0;
Java_sun_nio_fs_UnixNativeDispatcher_getgrnam0;
Java_sun_nio_fs_UnixCopyFile_transfer;
handleSocketError;
```

```
local:
```

```
 *;
```

```
};
```

```
#
```

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#

# Define public interface.

SUNWprivate_1.1 {
  global:
    Java_sun_tools_attach_BsdVirtualMachine_checkPermissions;
    Java_sun_tools_attach_BsdVirtualMachine_close;
    Java_sun_tools_attach_BsdVirtualMachine_connect;
    Java_sun_tools_attach_BsdVirtualMachine_open;
    Java_sun_tools_attach_BsdVirtualMachine_sendQuitTo;
    Java_sun_tools_attach_BsdVirtualMachine_socket;
    Java_sun_tools_attach_BsdVirtualMachine_read;
    Java_sun_tools_attach_BsdVirtualMachine_write;
    Java_sun_tools_attach_BsdVirtualMachine_createAttachFile;
  local:
    *;
};
#
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```

```
platform=bsd
```

```
#
```

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```
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```

```
#
```

```
# Define public interface for libawt.so on Bsd.
```

```
# Bsd port does not use mawt, all public symbols are in libawt.so
```

```
SUNWprivate_1.1 {
```

```
  global:
```

```
    JNI_OnLoad;
```

```
    Java_java_awt_CheckboxMenuItem_initIDs;
```

```
    Java_java_awt_Color_initIDs;
```

```
    Java_java_awt_FontMetrics_initIDs;
```

```
    Java_java_awt_image_BufferedImage_initIDs;
```

```
    Java_sun_awt_image_DataBufferNative_getElem;
```

```
    Java_sun_awt_image_DataBufferNative_setElem;
```

```
    Java_java_awt_image_ColorModel_initIDs;
```

```
    Java_java_awt_image_ComponentSampleModel_initIDs;
```

```
    Java_java_awt_image_IndexColorModel_initIDs;
```

```
    Java_java_awt_image_Kernel_initIDs;
```



```

Java_java_awt_image_Raster_initIDs;
Java_java_awt_image_SampleModel_initIDs;
Java_java_awt_Label_initIDs;
Java_java_awt_MenuBar_initIDs;
Java_java_awt_ScrollPaneAdjustable_initIDs;
Java_java_awt_Toolkit_initIDs;
Java_java_awt_TrayIcon_initIDs;
    Java_sun_awt_DebugSettings_setCTracingOn__Z;
    Java_sun_awt_DebugSettings_setCTracingOn__ZLjava_lang_String_2;
    Java_sun_awt_DebugSettings_setCTracingOn__ZLjava_lang_String_2I;
Java_sun_awt_image_ByteComponentRaster_initIDs;
Java_sun_awt_image_GifImageDecoder_initIDs;
Java_sun_awt_image_GifImageDecoder_parseImage;
Java_sun_awt_image_Image_initIDs;
Java_sun_awt_image_ImageRepresentation_initIDs;
Java_sun_awt_image_ImageRepresentation_setDiffICM;
Java_sun_awt_image_ImageRepresentation_setICMpixels;
Java_sun_awt_image_ImagingLib_convolveBI;
Java_sun_awt_image_ImagingLib_convolveRaster;
Java_sun_awt_image_ImagingLib_init;
Java_sun_awt_image_ImagingLib_transformBI;
Java_sun_awt_image_ImagingLib_transformRaster;
Java_sun_awt_image_IntegerComponentRaster_initIDs;
Java_sun_awt_image_ShortComponentRaster_initIDs;
Java_sun_java2d_pipe_SpanClipRenderer_eraseTile;
Java_sun_java2d_pipe_SpanClipRenderer_fillTile;
    Java_sun_java2d_pipe_ShapeSpanIterator_addSegment;
    Java_sun_java2d_pipe_ShapeSpanIterator_moveTo;
    Java_sun_java2d_pipe_ShapeSpanIterator_lineTo;
    Java_sun_java2d_pipe_ShapeSpanIterator_quadTo;
    Java_sun_java2d_pipe_ShapeSpanIterator_curveTo;
    Java_sun_java2d_pipe_ShapeSpanIterator_closePath;
    Java_sun_java2d_pipe_ShapeSpanIterator_pathDone;
    Java_sun_java2d_pipe_ShapeSpanIterator_getNativeConsumer;
    Java_sun_java2d_pipe_ShapeSpanIterator_appendPoly;
    Java_sun_java2d_pipe_ShapeSpanIterator_dispose;
    Java_sun_java2d_pipe_ShapeSpanIterator_getNativeIterator;
    Java_sun_java2d_pipe_ShapeSpanIterator_getPathBox;
    Java_sun_java2d_pipe_ShapeSpanIterator_initIDs;
    Java_sun_java2d_pipe_ShapeSpanIterator_intersectClipBox;
    Java_sun_java2d_pipe_ShapeSpanIterator_nextSpan;
    Java_sun_java2d_pipe_ShapeSpanIterator_setNormalize;
    Java_sun_java2d_pipe_ShapeSpanIterator_setOutputAreaXYXY;
    Java_sun_java2d_pipe_ShapeSpanIterator_setRule;
    Java_sun_java2d_pipe_ShapeSpanIterator_skipDownTo;

Java_java_awt_Dimension_initIDs;
Java_java_awt_event_MouseEvent_initIDs;

```

```

Java_java_aws_image_DataBufferInt_initIDs;
Java_java_aws_image_SinglePixelPackedSampleModel_initIDs;
Java_java_aws_Rectangle_initIDs;
Java_sun_aws_image_BufImgSurfaceData_getSurfaceData;
Java_sun_aws_image_BufImgSurfaceData_initIDs;
Java_sun_aws_image_BufImgSurfaceData_initRaster;
Java_sun_aws_image_BufImgSurfaceData_setSurfaceData;
    Java_sun_aws_image_BufImgSurfaceData_freeNativeICMData;
Java_sun_aws_image_BytePackedRaster_initIDs;
Java_sun_aws_image_ImagingLib_lookupByteBI;
Java_sun_aws_image_ImagingLib_lookupByteRaster;
Java_sun_java2d_SurfaceData_initIDs;
Java_sun_java2d_SurfaceData_isOpaqueGray;
Java_sun_java2d_Disposer_initIDs;
Java_sun_java2d_DefaultDisposerRecord_invokeNativeDispose;
Java_sun_java2d_loops_BlitBg_BlitBg;
Java_sun_java2d_loops_Blit_Blit;
Java_sun_java2d_loops_ScaledBlit_Scale;
Java_sun_java2d_loops_DrawLine_DrawLine;
Java_sun_java2d_loops_DrawPolygons_DrawPolygons;
Java_sun_java2d_loops_DrawRect_DrawRect;
Java_sun_java2d_loops_FillRect_FillRect;
Java_sun_java2d_loops_FillSpans_FillSpans;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_initIDs;
Java_sun_java2d_loops_GraphicsPrimitiveMgr_registerNativeLoops;
Java_sun_java2d_loops_MaskBlit_MaskBlit;
Java_sun_java2d_loops_MaskFill_MaskFill;
Java_sun_java2d_loops_MaskFill_FillAAPgram;
Java_sun_java2d_loops_MaskFill_DrawAAPgram;
    Java_sun_java2d_pipe_BufferedRenderPipe_fillSpans;
Java_sun_java2d_pipe_SpanClipRenderer_initIDs;
sun_aws_image_GifImageDecoder_initIDs;

```

libmawt entry points

```

SurfaceData_InitOps;
SurfaceData_ThrowInvalidPipeException;
    Region_GetBounds;
    Region_GetInfo;
    Region_StartIteration;
    Region_CountIterationRects;
    Region_NextIteration;
    Region_EndIteration;
    GrPrim_CompGetXorInfo;
    GrPrim_CompGetAlphaInfo;
img_makePalette;
initInverseGrayLut;
make_dither_arrays;
make_uns_ordered_dither_array;

```

```

# variables exported to libmawt
std_img_oda_red;
std_img_oda_blue;
std_img_oda_green;
std_odas_computed;
g_CMpDataID;
colorValueID;
    jvm;

# CDE private entry point
    # This is in awt_LoadLibrary.c and falls through to libmawt.
    # Evidently CDE needs this for backward compatability.
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
    # This is in awt_LoadLibrary.c and falls through to libmawt.
    # Evidently plugin needs this for backward compatability.
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
GrPrim_Sg2dGetCompInfo;
GrPrim_Sg2dGetClip;
GetNativePrim;
SurfaceData_IntersectBounds;
SurfaceData_GetOps;
Disposer_AddRecord;
GrPrim_Sg2dGetEaRGB;
GrPrim_Sg2dGetPixel;
GrPrim_Sg2dGetLCDTextContrast;

#Java_sun_awt_motif_MComponentPeer_restoreFocus;
Java_sun_awt_DefaultMouseInfoPeer_fillPointWithCoords;
Java_sun_awt_DefaultMouseInfoPeer_isWindowUnderMouse;
Java_java_awt_AWTEvent_nativeSetSource;
Java_java_awt_Checkbox_initIDs;
Java_java_awt_Component_initIDs;
Java_java_awt_Dialog_initIDs;
Java_java_awt_Font_initIDs;
Java_sun_awt_KeyboardFocusManagerPeerImpl_clearNativeGlobalFocusOwner;
    Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusOwner;
    Java_sun_awt_KeyboardFocusManagerPeerImpl_getNativeFocusedWindow;
    Java_java_awt_KeyboardFocusManager_initIDs;
Java_java_awt_Menu_initIDs;
Java_java_awt_MenuComponent_initIDs;

```

```

Java_java_awt_MenuItem_initIDs;
Java_java_awt_Scrollbar_initIDs;
Java_java_awt_ScrollPane_initIDs;
Java_java_awt_TextArea_initIDs;
Java_sun_awt_FontDescriptor_initIDs;
#Java_sun_awt_motif_MButtonPeer_create;
#Java_sun_awt_motif_MButtonPeer_setLabel;
#Java_sun_awt_motif_MCanvasPeer_create;
#Java_sun_awt_motif_MCanvasPeer_initIDs;
#Java_sun_awt_motif_MCanvasPeer_resetTargetGC;
#Java_sun_awt_motif_MCheckboxMenuItemPeer_pSetState;
#Java_sun_awt_motif_MCheckboxPeer_create;
#Java_sun_awt_motif_MCheckboxPeer_setCheckboxGroup;
#Java_sun_awt_motif_MCheckboxPeer_setLabel;
#Java_sun_awt_motif_MCheckboxPeer_pSetState;
#Java_sun_awt_motif_MCheckboxPeer_pGetState;
#Java_sun_awt_motif_MChoicePeer_addItem;
#Java_sun_awt_motif_MChoicePeer_appendItems;
#Java_sun_awt_motif_MChoicePeer_create;
#Java_sun_awt_motif_MChoicePeer_pReshape;
#Java_sun_awt_motif_MChoicePeer_remove;
#Java_sun_awt_motif_MChoicePeer_removeAll;
#Java_sun_awt_motif_MChoicePeer_setBackground;
#Java_sun_awt_motif_MChoicePeer_pSelect;
#Java_sun_awt_motif_MChoicePeer_setFont;
#Java_sun_awt_motif_MChoicePeer_setForeground;
#Java_sun_awt_motif_MComponentPeer_addNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_createBackBuffer;
#Java_sun_awt_motif_MComponentPeer_destroyBackBuffer;
#Java_sun_awt_motif_MComponentPeer_getNativeColor;
#Java_sun_awt_motif_MComponentPeer_getWindow;
#Java_sun_awt_motif_MComponentPeer_pDisable;
#Java_sun_awt_motif_MComponentPeer_pDispose;
#Java_sun_awt_motif_MComponentPeer_pEnable;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen;
#Java_sun_awt_motif_MComponentPeer_pGetLocationOnScreen2;
#Java_sun_awt_motif_MComponentPeer_pHide;
#Java_sun_awt_motif_MComponentPeer_pInitialize;
#Java_sun_awt_motif_MComponentPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MComponentPeer_pReshape;
#Java_sun_awt_motif_MComponentPeer_pShow;
#Java_sun_awt_motif_MComponentPeer_removeNativeDropTarget;
#Java_sun_awt_motif_MComponentPeer_swapBuffers;
#Java_sun_awt_motif_MComponentPeer_pSetBackground;
#Java_sun_awt_motif_MComponentPeer_pSetFont;
    #Java_sun_awt_motif_MComponentPeer_processSynchronousLightweightTransfer;
    #Java_sun_awt_motif_MComponentPeer__1requestFocus;
#Java_sun_awt_motif_MCheckboxMenuItemPeer_getState;

```

```
#Java_sun_awt_motif_MComponentPeer_pSetForeground;
#Java_sun_awt_motif_MDragSourceContextPeer_startDrag;
#Java_sun_awt_motif_MDragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_MDropTargetContextPeer_addTransfer;
#Java_sun_awt_motif_MDropTargetContextPeer_dropDone;
#Java_sun_awt_motif_MDropTargetContextPeer_startTransfer;
#Java_sun_awt_motif_X11DragSourceContextPeer_startDrag;
#Java_sun_awt_motif_X11DragSourceContextPeer_setNativeCursor;
#Java_sun_awt_motif_X11DropTargetContextPeer_sendResponse;
#Java_sun_awt_motif_X11DropTargetContextPeer_dropDone;
#Java_sun_awt_motif_X11DropTargetContextPeer_getData;
#Java_sun_awt_motif_MEmbeddedFramePeer_NEFcreate;
#Java_sun_awt_motif_MEmbeddedFramePeer_pShowImpl;
#Java_sun_awt_motif_MEmbeddedFramePeer_pReshapePrivate;
#Java_sun_awt_motif_MEmbeddedFramePeer_getBoundsPrivate;
#Java_sun_awt_motif_MFramePeer_pSetIconImage___3B_3I_3SII;
#Java_sun_awt_motif_MEmbeddedFramePeer_requestXEmbedFocus;
#Java_sun_awt_motif_MEmbeddedFramePeer_isXEmbedApplicationActive;
#Java_sun_awt_motif_MEmbeddedFramePeer_isXEmbedActive;
#Java_sun_awt_motif_MEmbeddedFrame_getWidget;
#Java_sun_awt_motif_MEmbeddedFrame_mapWidget;
#Java_sun_awt_motif_MFileDialogPeer_create;
#Java_sun_awt_motif_MFileDialogPeer_pDispose;
#Java_sun_awt_motif_MFileDialogPeer_pHide;
#Java_sun_awt_motif_MFileDialogPeer_pReshape;
#Java_sun_awt_motif_MFileDialogPeer_pShow;
#Java_sun_awt_motif_MFileDialogPeer_setFileEntry;
#Java_sun_awt_motif_MFileDialogPeer_setFont;
#Java_sun_awt_motif_MFramePeer_pGetIconSize;
#Java_sun_awt_motif_MGlobalCursorManager_cacheInit;
#Java_sun_awt_motif_MGlobalCursorManager_findComponentAt;
#Java_sun_awt_motif_MGlobalCursorManager_findHeavyweightUnderCursor;
#Java_sun_awt_motif_MGlobalCursorManager_getCursorPos;
#Java_sun_awt_motif_MGlobalCursorManager_getLocationOnScreen;
#Java_sun_awt_motif_MLabelPeer_create;
#Java_sun_awt_motif_MLabelPeer_setAlignment;
#Java_sun_awt_motif_MLabelPeer_setText;
#Java_sun_awt_motif_MListPeer_addItem;
#Java_sun_awt_motif_MListPeer_create;
#Java_sun_awt_motif_MListPeer_delItems;
#Java_sun_awt_motif_MListPeer_deselect;
#Java_sun_awt_motif_MListPeer_isSelected;
#Java_sun_awt_motif_MListPeer_makeVisible;
#Java_sun_awt_motif_MListPeer_select;
#Java_sun_awt_motif_MListPeer_setMultipleSelections;
#Java_sun_awt_motif_MMenuBarPeer_create;
#Java_sun_awt_motif_MMenuItemPeer_createMenuItem;
#Java_sun_awt_motif_MMenuItemPeer_pDisable;
```

```
#Java_sun_awt_motif_MMenuItemPeer_pDispose;
#Java_sun_awt_motif_MMenuItemPeer_pEnable;
#Java_sun_awt_motif_MMenuItemPeer_pSetLabel;
#Java_sun_awt_motif_MMenuPeer_createMenu;
#Java_sun_awt_motif_MMenuPeer_createSubMenu;
#Java_sun_awt_motif_MMenuPeer_pDispose;
#Java_sun_awt_motif_MPopupMenuPeer_createMenu;
#Java_sun_awt_motif_MPopupMenuPeer_pDispose;
#Java_sun_awt_motif_MPopupMenuPeer_pShow;
#Java_sun_awt_motif_MRobotPeer_getRGBPixelsImpl;
#Java_sun_awt_motif_MRobotPeer_keyPressImpl;
#Java_sun_awt_motif_MRobotPeer_keyReleaseImpl;
#Java_sun_awt_motif_MRobotPeer_mouseMoveImpl;
#Java_sun_awt_motif_MRobotPeer_mousePressImpl;
#Java_sun_awt_motif_MRobotPeer_mouseReleaseImpl;
#Java_sun_awt_motif_MRobotPeer_mouseWheelImpl;
#Java_sun_awt_motif_MRobotPeer_setup;
#Java_sun_awt_motif_MScrollbarPeer_create;
#Java_sun_awt_motif_MScrollbarPeer_setLineIncrement;
#Java_sun_awt_motif_MScrollbarPeer_setPageIncrement;
#Java_sun_awt_motif_MScrollbarPeer_pSetValues;
#Java_sun_awt_motif_MScrollPanePeer_create;
#Java_sun_awt_motif_MScrollPanePeer_pGetBlockIncrement;
#Java_sun_awt_motif_MScrollPanePeer_pGetScrollbarSpace;
#Java_sun_awt_motif_MScrollPanePeer_pGetShadow;
#Java_sun_awt_motif_MScrollPanePeer_pInsets;
#Java_sun_awt_motif_MScrollPanePeer_pSetIncrement;
#Java_sun_awt_motif_MScrollPanePeer_pSetScrollChild;
#Java_sun_awt_motif_MScrollPanePeer_setScrollPosition;
#Java_sun_awt_motif_MTextAreaPeer_initIDs;
#Java_sun_awt_motif_MTextAreaPeer_pCreate;
#Java_sun_awt_motif_MTextAreaPeer_getCaretPosition;
#Java_sun_awt_motif_MTextAreaPeer_getExtraHeight;
#Java_sun_awt_motif_MTextAreaPeer_getExtraWidth;
#Java_sun_awt_motif_MTextAreaPeer_getSelectionEnd;
#Java_sun_awt_motif_MTextAreaPeer_getSelectionStart;
#Java_sun_awt_motif_MTextAreaPeer_getText;
#Java_sun_awt_motif_MTextAreaPeer_insert;
#Java_sun_awt_motif_MTextAreaPeer_pMakeCursorVisible;
#Java_sun_awt_motif_MTextAreaPeer_pSetEditable;
#Java_sun_awt_motif_MTextAreaPeer_pShow2;
#Java_sun_awt_motif_MTextAreaPeer_replaceRange;
#Java_sun_awt_motif_MTextAreaPeer_select;
#Java_sun_awt_motif_MTextAreaPeer_setCaretPosition;
#Java_sun_awt_motif_MTextAreaPeer_setFont;
#Java_sun_awt_motif_MTextAreaPeer_setText;
#Java_sun_awt_motif_MTextAreaPeer_setTextBackground;
#Java_sun_awt_motif_MTextFieldPeer_initIDs;
```

```

#Java_sun_awt_motif_MTextFieldPeer_pCreate;
#Java_sun_awt_motif_MTextFieldPeer_getCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_getSelectionEnd;
#Java_sun_awt_motif_MTextFieldPeer_getSelectionStart;
#Java_sun_awt_motif_MTextFieldPeer_getText;
#Java_sun_awt_motif_MTextFieldPeer_insertReplaceText;
#Java_sun_awt_motif_MTextFieldPeer_preDispose;
#Java_sun_awt_motif_MTextFieldPeer_pSetEditable;
#Java_sun_awt_motif_MTextFieldPeer_select;
#Java_sun_awt_motif_MTextFieldPeer_setCaretPosition;
#Java_sun_awt_motif_MTextFieldPeer_setEchoChar;
#Java_sun_awt_motif_MTextFieldPeer_setFont;
#Java_sun_awt_motif_MTextFieldPeer_setText;
Java_sun_awt_motif_MToolkit_beep;
Java_sun_awt_motif_MToolkit_getLockingKeyStateNative;
Java_sun_awt_motif_MToolkit_getMulticlickTime;
    Java_sun_awt_motif_MToolkit_getNumMouseButtons;
Java_sun_awt_motif_MToolkit_getScreenHeight;
Java_sun_awt_motif_MToolkit_getScreenResolution;
Java_sun_awt_motif_MToolkit_getScreenWidth;
Java_sun_awt_motif_MToolkit_init;
Java_sun_awt_motif_MToolkit_isDynamicLayoutSupportedNative;
Java_sun_awt_motif_MToolkit_isFrameStateSupported;
Java_sun_awt_motif_MToolkit_loadSystemColors;
Java_sun_awt_motif_MToolkit_makeColorModel;
Java_sun_awt_motif_MToolkit_run;
Java_sun_awt_motif_MToolkit_sync;
    Java_sun_awt_motif_MToolkit_isAlwaysOnTopSupported;
Java_sun_awt_motif_MWindowAttributes_initIDs;
#Java_sun_awt_motif_MWindowPeer_pDispose;
#Java_sun_awt_motif_MWindowPeer_pHide;
#Java_sun_awt_motif_MWindowPeer_pReshape;
#Java_sun_awt_motif_MWindowPeer_pSetTitle;
#Java_sun_awt_motif_MWindowPeer_pShow;
#Java_sun_awt_motif_MWindowPeer_setResizable;
#Java_sun_awt_motif_MWindowPeer_toBack;
#Java_sun_awt_motif_MWindowPeer_addTextComponentNative;
#Java_sun_awt_motif_MWindowPeer_getState;
#Java_sun_awt_motif_MWindowPeer_pSetIMMOption;
#Java_sun_awt_motif_MWindowPeer_pSetMenuBar;
#Java_sun_awt_motif_MWindowPeer_pShowModal;
#Java_sun_awt_motif_MWindowPeer_removeTextComponentNative;
#Java_sun_awt_motif_MWindowPeer_setSaveUnder;
#Java_sun_awt_motif_MWindowPeer_setState;
#Java_sun_awt_motif_MWindowPeer_resetTargetGC;
#Java_sun_awt_motif_MWindowPeer_registerX11DropTarget;
#Java_sun_awt_motif_MWindowPeer_unregisterX11DropTarget;
    #Java_sun_awt_motif_MWindowPeer_updateAlwaysOnTop;

```

```

#Java_sun_awt_motif_X11CustomCursor_cacheInit;
#Java_sun_awt_motif_X11CustomCursor_createCursor;
#Java_sun_awt_motif_X11CustomCursor_queryBestCursor;
Java_sun_awt_motif_X11FontMetrics_bytesWidth;
Java_sun_awt_motif_X11FontMetrics_getMFCharsWidth;
Java_sun_awt_motif_X11FontMetrics_init;
Java_sun_awt_X11InputMethod_disposeXIC;
Java_sun_awt_X11InputMethod_isCompositionEnabledNative;
Java_sun_awt_X11InputMethod_resetXIC;
Java_sun_awt_X11InputMethod_setCompositionEnabledNative;
Java_sun_awt_X11InputMethod_turnoffStatusWindow;
#Java_sun_awt_motif_MInputMethod_openXIMNative;
#Java_sun_awt_motif_MInputMethod_configureStatusAreaNative;
#Java_sun_awt_motif_MInputMethod_createXICNative;
#Java_sun_awt_motif_MInputMethod_reconfigureXICNative;
#Java_sun_awt_motif_MInputMethod_setXICFocusNative;
#Java_sun_awt_motif_X11Clipboard_getClipboardData;
#Java_sun_awt_motif_X11Clipboard_getClipboardFormats;
#Java_sun_awt_motif_X11Clipboard_registerClipboardViewer;
#Java_sun_awt_motif_X11Clipboard_unregisterClipboardViewer;
#Java_sun_awt_motif_X11Selection_init;
#Java_sun_awt_motif_X11Selection_pGetSelectionOwnership;
#Java_sun_awt_motif_X11Selection_clearNativeContext;
Java_sun_awt_SunToolkit_closeSplashScreen;
Java_sun_awt_PlatformFont_initIDs;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_dispose;
Java_sun_awt_X11GraphicsConfig_pGetBounds;
Java_sun_awt_X11GraphicsConfig_getNumColors;
Java_sun_awt_X11GraphicsConfig_getXResolution;
Java_sun_awt_X11GraphicsConfig_getYResolution;
    Java_sun_awt_X11GraphicsConfig_isTranslucencyCapable;
Java_sun_awt_X11GraphicsDevice_isDBESupported;
Java_sun_awt_X11GraphicsDevice_getDisplay;
Java_sun_awt_X11GraphicsDevice_getDoubleBufferVisuals;
Java_sun_awt_X11GraphicsDevice_getNumConfigs;
Java_sun_awt_X11GraphicsDevice_initIDs;
    Java_sun_awt_X11GraphicsDevice_initXrandrExtension;
    Java_sun_awt_X11GraphicsDevice_enterFullScreenExclusive;
    Java_sun_awt_X11GraphicsDevice_exitFullScreenExclusive;
    Java_sun_awt_X11GraphicsDevice_getCurrentDisplayMode;
    Java_sun_awt_X11GraphicsDevice_enumDisplayModes;
    Java_sun_awt_X11GraphicsDevice_configDisplayMode;
    Java_sun_awt_X11GraphicsDevice_resetNativeData;
Java_sun_awt_X11GraphicsEnvironment_checkShmExt;
Java_sun_awt_X11GraphicsEnvironment_getDefaultScreenNum;
Java_sun_awt_X11GraphicsEnvironment_getDisplayString;
Java_sun_awt_X11GraphicsEnvironment_getNumScreens;

```


Java_sun_awt_X11GraphicsEnvironment_initDisplay;
Java_sun_awt_X11GraphicsEnvironment_pRunningXinerama;
Java_sun_awt_X11GraphicsEnvironment_getXineramaCenterPoint;
Java_sun_awt_X11GraphicsEnvironment_initXRender;

Java_java_awt_AWTEvent_initIDs;
Java_java_awt_Button_initIDs;
Java_java_awt_Container_initIDs;
Java_java_awt_Cursor_finalizeImpl;
Java_java_awt_Cursor_initIDs;
Java_java_awt_Event_initIDs;
Java_java_awt_event_InputEvent_initIDs;
Java_java_awt_event_KeyEvent_initIDs;
Java_java_awt_FileDialog_initIDs;
Java_java_awt_Frame_initIDs;
Java_java_awt_Insets_initIDs;
Java_java_awt_TextField_initIDs;
Java_java_awt_Window_initIDs;
#Java_sun_awt_motif_MCheckboxPeer_getIndicatorSize;
#Java_sun_awt_motif_MCheckboxPeer_getSpacing;
#Java_sun_awt_motif_MChoicePeer_freeNativeData;
#Java_sun_awt_motif_MComponentPeer_getComponents_1NoClientCode;
#Java_sun_awt_motif_MComponentPeer_getParent_1NoClientCode;
#Java_sun_awt_motif_MComponentPeer_initIDs;
#Java_sun_awt_motif_MComponentPeer_nativeHandleEvent;
#Java_sun_awt_motif_MComponentPeer_pSetCursor;
#Java_sun_awt_motif_MComponentPeer_pSetInnerForeground;
#Java_sun_awt_motif_MComponentPeer_pSetScrollbarBackground;
#Java_sun_awt_motif_MComponentPeer_setTargetBackground;
#Java_sun_awt_motif_MDataTransferer_dragQueryFile;
#Java_sun_awt_motif_MDataTransferer_getAtomForTarget;
#Java_sun_awt_motif_MDataTransferer_getTargetNameForAtom;
#Java_sun_awt_motif_MFileDialogPeer_insertReplaceFileDialogText;
Java_sun_awt_motif_MFontPeer_initIDs;
#Java_sun_awt_motif_MListPeer_setBackground;
#Java_sun_awt_motif_MMenuBarPeer_initIDs;
#Java_sun_awt_motif_MMenuBarPeer_pDispose;
#Java_sun_awt_motif_MMenuItemPeer_getParent_1NoClientCode;
#Java_sun_awt_motif_MMenuItemPeer_initIDs;
#Java_sun_awt_motif_MMenuItemPeer_pSetShortcut;
#Java_sun_awt_motif_MPopupMenuPeer_initIDs;
#Java_sun_awt_motif_MScrollbarPeer_initIDs;
#Java_sun_awt_motif_MScrollPanePeer_initIDs;
#Java_sun_awt_motif_MTextAreaPeer_pSetCursor;
Java_sun_awt_motif_MToolkit_shutdown;
#Java_sun_awt_motif_MWindowPeer_initIDs;

```

#Java_sun_awt_motif_MWindowPeer_pCreate;
#Java_sun_awt_motif_MWindowPeer_wrapInSequenced;
Java_sun_awt_motif_X11FontMetrics_initIDs;
#Java_sun_awt_X11InputMethod_initIDs;
Java_sun_awt_motif_X11OffScreenImage_updateBitmask;
#Java_sun_awt_motif_X11Selection_initIDs;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_enter;
Java_sun_awt_motif_MToolkitThreadBlockedHandler_exit;
Java_sun_awt_X11GraphicsConfig_init;
Java_sun_awt_X11GraphicsConfig_initIDs;
Java_sun_awt_X11GraphicsConfig_makeColorModel;
Java_sun_awt_X11GraphicsDevice_getConfigVisualId;
Java_sun_awt_X11PMBlitLoops_Blit;
Java_sun_awt_X11PMBlitBgLoops_nativeBlitBg;
Java_sun_awt_X11Renderer_devFillSpans;
Java_sun_awt_X11Renderer_doDrawArc;
Java_sun_awt_X11Renderer_doDrawLine;
Java_sun_awt_X11Renderer_doDrawOval;
Java_sun_awt_X11Renderer_doDrawPoly;
Java_sun_awt_X11Renderer_doDrawRect;
Java_sun_awt_X11Renderer_doDrawRoundRect;
Java_sun_awt_X11Renderer_doFillArc;
Java_sun_awt_X11Renderer_doFillOval;
Java_sun_awt_X11Renderer_doFillPoly;
Java_sun_awt_X11Renderer_doFillRect;
Java_sun_awt_X11Renderer_doFillRoundRect;
Java_sun_awt_X11Renderer_devCopyArea;
Java_sun_awt_X11SurfaceData_initIDs;
Java_sun_awt_X11SurfaceData_initOps;
Java_sun_awt_X11SurfaceData_initSurface;
Java_sun_awt_X11SurfaceData_isDgaAvailable;
Java_sun_awt_X11SurfaceData_setInvalid;
Java_sun_awt_X11SurfaceData_flushNativeSurface;
    #Java_sun_awt_motif_MEmbedCanvasPeer_initXEmbedServer;
    #Java_sun_awt_motif_MEmbedCanvasPeer_destroyXEmbedServer;
    #Java_sun_awt_motif_MEmbedCanvasPeer_isXEmbedActive;
    #Java_sun_awt_motif_MEmbedCanvasPeer_initDispatching;
    #Java_sun_awt_motif_MEmbedCanvasPeer_endDispatching;
    #Java_sun_awt_motif_MEmbedCanvasPeer_embedChild;
    #Java_sun_awt_motif_MEmbedCanvasPeer_childDestroyed;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedPreferredSize;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getEmbedMinimumSize;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getClientBounds;
    #Java_sun_awt_motif_MEmbedCanvasPeer_notifyChildEmbedded;
    #Java_sun_awt_motif_MEmbedCanvasPeer_detachChild;
    #Java_sun_awt_motif_MEmbedCanvasPeer_forwardKeyEvent;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getAWTKeyCodeForKeySym;
    #Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage_I;

```

```

    #Java_sun_awt_motif_MEmbedCanvasPeer_sendMessage_IJJJ;
    #Java_sun_awt_motif_MEmbedCanvasPeer_getWindow;
    #Java_sun_awt_motif_MEmbedCanvasPeer_forwardEventToEmbedded;
    #Java_sun_awt_motif_GrabbedKey_initKeySymAndModifiers;
    #Java_sun_awt_motif_MEmbeddedFramePeer_traverseOut;
awt_display;
awt_lock;
awt_Lock;
awt_Unlock;
    awt_GetDrawingSurface;
    awt_FreeDrawingSurface;
    awt_GetComponent;

X11SurfaceData_GetOps;
getDefaultConfig;
    Java_sun_font_FontConfigManager_getFontConfig;
    Java_sun_font_FontConfigManager_getFontConfigAASettings;
Java_sun_awt_X11FontManager_getFontPathNative;
Java_sun_font_SunFontManager_populateFontFileNameMap;

# CDE private entry point
Java_sun_awt_motif_XsessionWMcommand;

# Java Plugin
getAwtLockFunctions;
getAwtData;
getAwtDisplay;

# libfontmanager entry points
AWTIsHeadless;
AWTCountFonts;
    AWTLoadFont;
    AWTFreeFont;
    AWTFontMinByte1;
    AWTFontMaxByte1;
    AWTFontMinCharOrByte2;
    AWTFontMaxCharOrByte2;
    AWTFontDefaultChar;
    AWTFontPerChar;
    AWTFontMaxBounds;
    AWTFontTextExtents16;
    AWTFreeChar;
    AWTFontGenerateImage;
    AWTCharAdvance;
    AWTCharLBearing;
    AWTCharRBearing;
    AWTCharAscent;
    AWTCharDescent;

```

```
AWTDrawGlyphList;
AccelGlyphCache_RemoveAllCellInfos;
```

```
local:
```

```
*;
```

```
};
```

```
/*
```

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```
* questions.
```

```
*/
```

```
/**
```

```
*
```

```
*/
```

```
import java.rmi.Remote;
```

```
public interface Legal extends Remote {};
```

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```

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*/

```
import org.somewhere.ws.EchoRequest;  
import org.somewhere.ws.EchoResponse;
```

```
public class CopyingResponse extends EchoResponse {
```

```
    public CopyingResponse() {}
```

```
    public CopyingResponse(EchoRequest request) {  
        content = request.getContent();  
    }  
}
```

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# questions.
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```
# Makefile to specify compiler flags for programs and libraries
```

```
# targeted to BSD. Should not contain any rules.
```

```
#
```



```

# Warning: the following variables are overridden by Defs.gmk. Set
# values will be silently ignored:
# CFLAGS      (set $(OTHER_CFLAGS) instead)
# CPPFLAGS    (set $(OTHER_CPPFLAGS) instead)
# CXXFLAGS    (set $(OTHER_CXXFLAGS) instead)
# LDFLAGS     (set $(OTHER_LDFLAGS) instead)
# LDLIBS      (set $(EXTRA_LIBS) instead)
# LDLIBS_COMMON (set $(EXTRA_LIBS) instead)

# Get shared JDK settings
include $(BUILDDIR)/common/shared/Defs.gmk

ifndef PLATFORM_SRC
PLATFORM_SRC = $(TOPDIR)/src/solaris
endif # PLATFORM_SRC
#
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#
# Definitions for Bsd.
#
# Default for COMPILER_WARNINGS_FATAL on Bsd (C & C++ compiler warnings)
ifndef COMPILER_WARNINGS_FATAL
COMPILER_WARNINGS_FATAL=false

```

```

endif

# BSD should use parallel compilation for best build times
ifndef COMPILE_APPROACH
COMPILE_APPROACH = parallel
endif

# Indication that we are doing an incremental build.
# This may trigger the creation of make depend files.
ifndef INCREMENTAL_BUILD
INCREMENTAL_BUILD = false
endif

# FullPath just makes sure it never ends with a / and no duplicates
define FullPath
$(shell cd $1 2> $(DEV_NULL) && pwd)
endef

# OptFullPath: Absolute path name of a dir that might not initially exist.
define OptFullPath
$(shell if [ "$1" != "" -a -d "$1" ]; then (cd $1 && pwd); else echo "$1"; fi)
endef

# Location on system where jdk installs might be
USRJDKINSTANCES_PATH=$(PACKAGE_PATH)

# UNIXCOMMAND_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_UNIXCOMMAND_PATH)" "undefined"
UNIXCOMMAND_PATH :=$(call PrefixPath,$(ALT_UNIXCOMMAND_PATH))
else
UNIXCOMMAND_PATH = /bin/
endif

# USRBIN_PATH: path to where the most common Unix commands are.
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_USRBIN_PATH)" "undefined"
USRBIN_PATH :=$(call PrefixPath,$(ALT_USRBIN_PATH))
else
USRBIN_PATH = /usr/bin/
endif

# UNIXCCS_PATH: path to where the Solaris ported UNIX commands can be found
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_UNIXCCS_PATH)" "undefined"
UNIXCCS_PATH :=$(call PrefixPath,$(ALT_UNIXCCS_PATH))
else
UNIXCCS_PATH = /usr/ccs/bin/

```

```

endif

# SLASH_JAVA: location of all network accessible files
ifdef ALT_SLASH_JAVA
  SLASH_JAVA :=$(ALT_SLASH_JAVA)
else
  SLASH_JAVA := $(call DirExists,/java,/java,/NOT-SET)
endif

# JDK_DEVTOOLS_DIR: common path for all the java devtools
ifdef ALT_JDK_DEVTOOLS_DIR
  JDK_DEVTOOLS_DIR =$(ALT_JDK_DEVTOOLS_DIR)
else
  JDK_DEVTOOLS_DIR =$(SLASH_JAVA)/devtools
endif

# DEVTOOLS_PATH: for other tools required for building (such as zip, etc.)
# NOTE: Must end with / so that it could be empty, allowing PATH usage.
ifneq "$(origin ALT_DEVTOOLS_PATH)" "undefined"
  DEVTOOLS_PATH :=$(call PrefixPath,$(ALT_DEVTOOLS_PATH))
else
  DEVTOOLS_PATH =$(PACKAGE_PATH)/bin/
endif

# _BOOTDIR1: First choice for a Bootstrap JDK, previous released JDK.
# _BOOTDIR2: Second choice
ifndef ALT_BOOTDIR
  _BOOTDIR1 =$(SLASH_JAVA)/re/jdk/$(PREVIOUS_JDK_VERSION)/archive/fcs/binaries/$(PLATFORM)-
$(ARCH)
  _BOOTDIR2 =$(USRJDKINSTANCES_PATH)/jdk$(PREVIOUS_JDK_VERSION)
endif

# Import JDK images allow for partial builds, components not built are
# imported (or copied from) these import areas when needed.

# BUILD_JDK_IMPORT_PATH: location of JDK install trees to import for
# multiple platforms, e.g. windows-i586, solaris-sparc, bsd-586, etc.
ifdef ALT_BUILD_JDK_IMPORT_PATH
  BUILD_JDK_IMPORT_PATH :=$(call FullPath,$(ALT_BUILD_JDK_IMPORT_PATH))
else
  BUILD_JDK_IMPORT_PATH = $(PROMOTED_BUILD_BINARIES)
endif
BUILD_JDK_IMPORT_PATH:=$(call AltCheckValue,BUILD_JDK_IMPORT_PATH)

# JDK_IMPORT_PATH: location of JDK install tree (this version) to import
ifdef ALT_JDK_IMPORT_PATH
  JDK_IMPORT_PATH :=$(call FullPath,$(ALT_JDK_IMPORT_PATH))
else

```

```
JDK_IMPORT_PATH = $(BUILD_JDK_IMPORT_PATH)/$(PLATFORM)-  
$(ARCH)$(JDK_IMPORT_VARIANT)  
endif  
JDK_IMPORT_PATH:=$(call AltCheckValue,JDK_IMPORT_PATH)
```

1.138 JavaBeans Activation Framework (JAF)

1.1

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1.9.2

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- * Reading (parsing) and writing (generation) of Json content
- * Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- * Support for converting to/from other data formats and access APIs, to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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1.142 JAXB API bundle for GlassFish V3 2.2.2

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1.146 jaxb-xjc 2.2

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- */

```
package com.sun.jersey.server.impl;
```

```
import java.io.InputStream;
import java.util.Properties;

/**
 *
 * @author Paul.Sandoz@Sun.Com
 */
public final class BuildId {
    private static String buildId = _initiateBuildId();

    private static String _initiateBuildId() {
        String id = "Jersey";

        final InputStream in = getInputStream();
        if (in != null) {
            try {
                Properties p = new Properties();
                p.load(in);
                String _id = p.getProperty("Build-Id");
            }
        }
    }
}
```

```

        if (_id != null)
            id = id + ": " + _id;
    } catch (Exception e){
        // Ignore
    } finally {
        close(in);
    }
}
return id;
}

private static void close(InputStream in) {
    try {
        in.close();
    } catch (Exception ex) {
        // Ignore
    }
}

private static InputStream getInputStream() {
    try {
        return BuildId.class.getResourceAsStream("build.properties");
    } catch (Exception ex) {
        return null;
    }
}

public static final String getBuildId() {
    return buildId;
}
}

```

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- */

```
package com.sun.jersey.client.impl;
```

```
import com.sun.jersey.api.client.ClientRequest;
import com.sun.jersey.api.client.ClientRequestAdapter;
import com.sun.jersey.core.header.OutBoundHeaders;
```

```
import javax.ws.rs.core.MultivaluedMap;
import java.io.IOException;
import java.io.OutputStream;
import java.net.URI;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
```

```
public final class ClientRequestImpl extends ClientRequest implements ClientRequestAdapter {
    private Map<String, Object> properties;
```

```

private URI uri;

private String method;

private Object entity;

private final MultivaluedMap<String, Object> metadata;

private ClientRequestAdapter adapter;

public ClientRequestImpl(URI uri, String method) {
    this(uri, method, null, null);
}

public ClientRequestImpl(URI uri, String method, Object entity) {
    this(uri, method, entity, null);
}

public ClientRequestImpl(URI uri, String method,
    Object entity, MultivaluedMap<String, Object> metadata) {
    this.uri = uri;
    this.method = method;
    this.entity = entity;
    this.metadata = (metadata != null) ? metadata : new OutBoundHeaders();
    this.adapter = this;
}

public Map<String, Object> getProperties() {
    if (properties == null)
        properties = new HashMap<String, Object>();

    return properties;
}

public void setProperties(Map<String, Object> properties) {
    this.properties = properties;
}

public URI getURI() {
    return uri;
}

public void setURI(URI uri) {
    this.uri = uri;
}

public String getMethod() {

```

```

    return method;
}

public void setMethod(String method) {
    this.method = method;
}

public Object getEntity() {
    return entity;
}

public void setEntity(Object entity) {
    this.entity = entity;
}

public MultivaluedMap<String, Object> getMetadata() {
    return getHeaders();
}

public MultivaluedMap<String, Object> getHeaders() {
    return metadata;
}

public ClientRequestAdapter getAdapter() {
    return adapter;
}

public void setAdapter(ClientRequestAdapter adapter) {
    this.adapter = (adapter != null) ? adapter : this;
}

@Override
public ClientRequest clone() {
    return new ClientRequestImpl(this.uri, this.method,
        this.entity, clone(this.metadata));
}

private static MultivaluedMap<String, Object> clone(MultivaluedMap<String, Object> md) {
    MultivaluedMap<String, Object> clone = new OutBoundHeaders();
    for (Map.Entry<String, List<Object>> e : md.entrySet()) {
        clone.put(e.getKey(), new ArrayList<Object>(e.getValue()));
    }
    return clone;
}

// ClientRequestAdapter

```

```
public OutputStream adapt(ClientRequest request, OutputStream out) throws IOException {  
    return out;  
}  
}
```

1.150 jersey-core 1.16

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```

```
package com.sun.jersey.api.provider.jaxb;
```

```
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
```

```
/** Allows to specify XML header for XML output produced by a resource method
* it is attached to.
* <p>
* Example usage:
* <pre>
* &#64;GET
* &#64;Produces("application/xml")
* &#64;XmlHeader("&lt;?xml-stylesheet type='text/xml' href='foobar.xml' ?&gt;")
* public JaxbBean get() {
*     ...
* }
* </pre>
*
* @author Martin Matula
*/
@Target(ElementType.METHOD)
@Retention(RetentionPolicy.RUNTIME)
public @interface XmlHeader {
    String value();
}
```

1.151 jersey-json 1.16

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```

```
package com.sun.jersey.server.impl.cdi;
```

```

import java.lang.annotation.Annotation;
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashSet;
import java.util.Set;
import javax.enterprise.context.Dependent;
import javax.enterprise.context.spi.CreationalContext;
import javax.enterprise.inject.spi.Bean;
import javax.enterprise.inject.spi.InjectionPoint;

```

```

/**
 * Base class implementing the CDI Bean interface.
 *
 * Subclasses must implement the create method.
 *
 * Currently, AbstractBean only supports a single qualifier and a single bean type,
 * although it could easily be extended to support more.
 *
 * @author robc
 */
public abstract class AbstractBean<T> implements Bean<T> {

```

```

private Class<?> klass;
private Set<Annotation> qualifiers;
private Set<Type> types;

public AbstractBean(Class<?> klass, Annotation qualifier) {
    this(klass, klass, qualifier);
}

public AbstractBean(Class<?> klass, Set<Annotation> qualifiers) {
    this(klass, klass, qualifiers);
}

public AbstractBean(Class<?> klass, Type type, Annotation qualifier) {
    this.klass = klass;

    qualifiers = new HashSet<Annotation>();
    qualifiers.add(qualifier);
    types = new HashSet<Type>();
    types.add(type);
}

public AbstractBean(Class<?> klass, Type type, Set<Annotation> qualifiers) {
    this.klass = klass;
    this.qualifiers = qualifiers;
    types = new HashSet<Type>();
    types.add(type);
}

public Class<?> getBeanClass() {
    return klass;
}

public Set<InjectionPoint> getInjectionPoints() {
    return (Set<InjectionPoint>)Collections.EMPTY_SET;
}

public String getName() {
    return null;
}

public Set<Annotation> getQualifiers() {
    return qualifiers;
}

public Class<? extends Annotation> getScope() {
    return Dependent.class;
}

```

```

public Set<Class<? extends Annotation>> getStereotypes() {
    return (Set<Class<? extends Annotation>>)Collections.EMPTY_SET;
}

public Set<Type> getTypes() {
    return types;
}

public boolean isAlternative() {
    return false;
}

public boolean isNullable() {
    return false;
}

public abstract T create(CreationalContext<T> creationalContext);

public void destroy(T instance, CreationalContext<T> creationalContext) {
    // no-op
}
}

```

1.154 jettison 1.1

1.154.1 Available under license :

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1.156 jpackage-utils 1.7.5 :3.16.el6

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1.157 jquery (DUPLICATE) 1.7.2

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1.159 jsr311-api 1.1.1

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```

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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```
</sect1>
```

```
</appendix>
```

```
#ifndef __LICENSE_H
```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
return (strcmp(license, "GPL") == 0
|| strcmp(license, "GPL v2") == 0
|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
|| strcmp(license, "Dual MIT/GPL") == 0
|| strcmp(license, "Dual MPL/GPL") == 0);
}
```

```
#endif
```

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
```


* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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1.163 kexec-tools 2.0.0 :300.el6

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1.164 keyutils 1.4 :5.el6

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```
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```

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```
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```

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software

sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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```
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```

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.166 krb5-libs 1.10.3 :65

1.166.1 Available under license :

[NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows.]

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```
cmd/krb5/iproplib/iproplib.x
cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
```

cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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```
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```

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```
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```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi'`, including the following files:

`lib/gssapi/generic/gssapi_err_generic.et`

lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr_hdr.h
kadmin/server/iproprd_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c

slave/kproplog.c

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1.171 libblkid 2.17.2 :12.28.el6

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1.174 libcom_err 1.41.12 :23.el6

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Theodore Ts'o
23-June-2007

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It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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```

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```

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*/

Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

-

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1.175 libcurl 7.19.7 :53.el6_9

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=====

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

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1.176 libdrm 2.4.65 :2.e16

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1.177 libedit 2.11 :4.20080712cvs.1.e16

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1.178 libffi 3.0.5 :3.2.e16

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1.179 libfontenc 1.1.2 :3.el6

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1.180 libfontenc 1.0.5 :2.el6

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Version 3, 29 June 2007

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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However, linking a "work that uses the Library" with the Library

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

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Ty Coon, President of Vice

That's all there is to it!

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the

generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the

code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@end display

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We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain

special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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@ifinfo
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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@item

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the ``work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a

@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate
```

```
@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
```

```
@page
@appendixsubsec How to Apply These Terms to Your New Libraries
```

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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Version 2.1, February 1999

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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@html

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@ifnohtml

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@c Local Variables:
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@c End:
```

```
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@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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@unnumberedsec Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

```
@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
```

Ty Coon, President of Vice
@end example

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

@c man end

1.182 libgcc 4.4.7 :17.el6

1.182.1 Available under license :

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,

modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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51 Franklin Street - Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that

there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the `Lesser` General Public License because it does *Less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *Less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

@enumerate 0

@item

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item

You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the ``work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@item

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@item

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@item

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@iftex

@heading NO WARRANTY

@end iftex

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@center NO WARRANTY

@end ifinfo

@item

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@heading END OF TERMS AND CONDITIONS

@end iftex

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@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@smallexample

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

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Version 2.1, February 1999

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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the

Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those libraries into non-free programs.

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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@end smallexample

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@smallexample

@var{program} Copyright (C) @var{year} @var{name of author}

This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.

This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.

@end smallexample

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`@c man end`

`@ignore`

`@c Set file name and title for man page.`

`@setfilename gpl`

`@settitle GNU General Public License`

`@c man begin SEEALSO`

`gfdl(7), fsf-funding(7).`

`@c man end`

`@c man begin COPYRIGHT`

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`@c man end`

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`@node Copying`

`@c man begin DESCRIPTION`

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`@center Version 2, June 1991`

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@page

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@var{one line to give the program's name and a brief idea of what it does.}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

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```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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```
@c man end
libffi - Copyright (c) 1996-2003 Red Hat, Inc.
```

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* m4/ax_func_which_gethostbyname_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for

C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Version 2.1, February 1999

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You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

@item

If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item

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the limitation as if written in the body of this License.

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@item

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@center NO WARRANTY

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@end enumerate

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@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@page

@unnumberedsec Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
@smallexample
```

```
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.
```

```
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

```
@end smallexample
```

The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `@samp{show w}` and `@samp{show c}`; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
@example
```

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
```

```
Ty Coon, President of Vice
```

```
@end example
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
@c man end
```

```
GCC RUNTIME LIBRARY EXCEPTION
```

```
Version 3.1, 31 March 2009
```

```
Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>
```

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such

propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these

things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each

licensee is addressed as ``you".

A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A

suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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```

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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```

That's all there is to it!

1.183 libgcc 4.4.7 :18.el6

1.183.1 Available under license :

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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```
/* Definitions for BSD assembler syntax for Intel 386  
(actually AT&T syntax for insns and operands,  
adapted to BSD conventions for symbol names and debugging.)  
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```

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_SHORT "\t.word\t"

#define ASM_LONG "\t.long\t"

#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS

#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \n\nfprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \n\n

```

(fputs(".comm ", (FILE)), \
assemble_name((FILE), (NAME)), \
fprintf((FILE), "%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
(fputs(".lcomm ", (FILE)), \
assemble_name((FILE), (NAME)), \
fprintf((FILE), "%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs(".lcomm ", (FILE)), \
assemble_name((FILE), (NAME)), \
fprintf((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG) \
if ((LOG)!=0) fprintf((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF, PREFIX, NUMBER) \
sprintf((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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```

gfdl(7), fsf-funding(7).

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@iftex

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@unnumberedsec Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

@smallexample

Gnomovision version 69, Copyright (C) @var{year} @var{name of author}

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and

@samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

@example

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

@c man end

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

@c man end

@c man begin COPYRIGHT

Copyright @copyright{ } 2007 Free Software Foundation, Inc.

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

@unnumbered GNU General Public License

@center Version 3, 29 June 2007

@c This file is intended to be included in another file.

@display

Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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@end display

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systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

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A ``covered work" means either the unmodified Program or a work based on the Program.

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To ``convey" a work means any kind of propagation that enables other

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item

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@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be

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```
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16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL Stylesheets V1.74.0"
/><meta name="keywords" content="&#10; ISO C++&#10; , &#10; library&#10; " /><link rel="home"
href="..../spine.html" title="The GNU C++ Library Documentation" /><link rel="up" href="status.html"
title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
summary="Navigation header"><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%"
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align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
href="bugs.html">Next</a></td></tr></table><hr /></div><div class="sect1" lang="en" xml:lang="en"><div
class="titlepage"><div><div><h2 class="title" style="clear: both"><a
id="manual.intro.status.license"></a>License</h2></div></div></div><p>
There are two licenses affecting GNU libstdc++: one for the code,
and one for the documentation.
</p><p>
There is a license section in the FAQ regarding common <a class="link" href="..../faq.html#faq.license"
title="License">questions</a>. If you have more
questions, ask the FSF or the <a class="ulink" href="http://gcc.gnu.org/lists.html" target="_top">gcc mailing
list</a>.
</p><div class="sect2" lang="en" xml:lang="en"><div class="titlepage"><div><div><h3 class="title"><a
id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div></div><p>
The source code is distributed under the <a class="link" href="appendix_gpl.html" title="AppendixD. GNU
General Public License version 3">GNU General Public License version 3</a>,
with the addition under section 7 of an exception described in
the <span class="quote">GCC Runtime Library Exception, version 3.1</span>
as follows (or see the file COPYING.RUNTIME):
</p><div class="literallayout"><p><br />
GCCRUNTIMELIBRARYEXCEPTION<br />
<br />
Version3.1,31March2009<br />
<br />
Copyright(C)2009<a class="ulink" href="http://fsf.org" target="_top">FreeSoftwareFoundation,Inc.</a><br />
<br />
Everyoneispermittedtocopyanddistributeverbatimcopiesofthis<br />
licensedocument,butchangingitisnotallowed.<br />
<br />
ThisGCCRuntimeLibraryException("Exception")isanadditional<br />
```


permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or as specified later) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine bytecode, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.
You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.
The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

Hopefully that text is self-explanatory. If it isn't, you need to speak to your lawyer, or the Free Software Foundation.

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The documentation shipped with the library and made available over the web, excluding the pages generated from source comments, are copyrighted by the Free Software Foundation, and placed under the GNU Free Documentation License version 1.2. There are no Front-Cover Texts, no Back-Cover Texts, and no Invariant Sections.

For documentation generated by doxygen or other automated tools via processing source code comments and markup, the original source code license applies to the generated files. Thus, the doxygen documents are licensed under the GNU General Public License version 3.

If you plan on making copies of the documentation, please let us know. We can probably offer suggestions.

Prev	Up	Next	Chapter 1. Status	Home	Bugs
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">

<head>

<meta name="generator" content="

"HTML Tidy for Linux/x86 (vers 12 April 2005), see www.w3.org" />

```
<title>What, me worry?</title>
<meta http-equiv="Content-Type" content=
"text/html; charset=us-ascii" />
</head>

<body>
<div id="page">
  <h2>Disclaimer and Copyright</h2>

  <p>Revised 16 February, 2004</p>&copy; Copyright Ami Tavory and
  Vladimir Dreizin, IBM-HRL, 2004, and Benjamin Kosnik, Red Hat,
  2004.

  <p>Permission to use, copy, modify, sell, and distribute this
  software is hereby granted without fee, provided that the above
  copyright notice appears in all copies, and that both that
  copyright notice and this permission notice appear in
  supporting documentation.</p>

  <p>None of the above authors, nor IBM Haifa Research
  Laboratories, Red Hat, or both, make any representation about
  the suitability of this software for any purpose. It is
  provided "as is" without express or implied warranty.</p>
</div>
</body>
</html>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE appendix PUBLIC "-//OASIS//DTD DocBook XML V4.5//EN"
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<title>
  <acronym>GNU</acronym> General Public License version 3
</title>
<para>
  Version 3, 29 June 2007
</para>
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  Copyright &copy; 2007 Free Software Foundation, Inc.
  <ulink url="http://fsf.org/">http://fsf.org</ulink>
</para>
<para>
  Everyone is permitted to copy and distribute verbatim copies of this license
  document, but changing it is not allowed.
</para>
<bridgehead id="gpl-3-preamble" renderas="sect1">
```

Preamble

</bridgehead>

<para>

The <acronym>GNU</acronym> General Public License is a free, copyleft license for software and other kinds of works.

</para>

<para>

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the <acronym>GNU</acronym> General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the <acronym>GNU</acronym> General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

</para>

<para>

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

</para>

<para>

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

</para>

<para>

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</para>

<para>

Developers that use the <acronym>GNU</acronym> <acronym>GPL</acronym> protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

</para>

<para>

For the developers’ and authors’ protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users’ and authors’ sake, the <acronym>GPL</acronym> requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of

previous versions.

</para>

<para>

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the <acronym>GPL</acronym> to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the <acronym>GPL</acronym>, as needed to protect the freedom of users.

</para>

<para>

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the <acronym>GPL</acronym> assures that patents cannot be used to render the program non-free.

</para>

<para>

The precise terms and conditions for copying, distribution and modification follow.

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead id="gpl-3-definitions" renderas="sect1">

0. Definitions.

</bridgehead>

<para>

“This License” refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

</para>

<para>

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”; “Licensees” and “recipients” may be individuals or organizations.

</para>

<para>

To “modify” a work means to copy from or adapt all or part of

the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

</para>

<para>

A “covered work” means either the unmodified Program or a work based on the Program.

</para>

<para>

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

</para>

<para>

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

</para>

<para>

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

</para>

<bridgehead id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

</para>

<para>

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

</para>

<para>

The “System Libraries” of an executable work include anything,

other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

</para>

<para>

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

</para>

<para>

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for

running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

</para>

<para>

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead id="Protecting" renderas="sect1">

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

</para>

<bridgehead id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

</para>

<bridgehead id="ConveyingModified" renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

The work must carry prominent notices stating that you modified it, and giving a relevant date.

</para>

</listitem>

<listitem>

<para>

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.

</para>

</listitem>

<listitem>

<para>

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

</para>

</listitem>

<listitem>

<para>

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

</para>

</listitem>

</orderedlist>

<para>

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works

permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

</para>

<bridgehead id="ConveyingNonSource" renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

</para>

</listitem>

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

</para>

</listitem>

<listitem>

<para>

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

</para>

</listitem>

<listitem>

<para>

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the

Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

</para>

</listitem>

<listitem>

<para>

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

</para>

</listitem>

</orderedlist>

<para>

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

</para>

<para>

A “User Product” is either (1) a “consumer product”;, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in <acronym>ROM</acronym>).

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

</para>

<bridgehead id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

</para>

<para>

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

</para>

```
<para>
  Notwithstanding any other provision of this License, for material you add
  to a covered work, you may (if authorized by the copyright holders of that
  material) supplement the terms of this License with terms:
</para>
<orderedlist numeration="loweralpha">
  <listitem>
    <para>
      Disclaiming warranty or limiting liability differently from the terms
      of sections 15 and 16 of this License; or
    </para>
  </listitem>
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    <para>
      Requiring preservation of specified reasonable legal notices or author
      attributions in that material or in the Appropriate Legal Notices
      displayed by works containing it; or
    </para>
  </listitem>
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      Prohibiting misrepresentation of the origin of that material, or
      requiring that modified versions of such material be marked in
      reasonable ways as different from the original version; or
    </para>
  </listitem>
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      Limiting the use for publicity purposes of names of licensors or
      authors of the material; or
    </para>
  </listitem>
  <listitem>
    <para>
      Declining to grant rights under trademark law for use of some trade
      names, trademarks, or service marks; or
    </para>
  </listitem>
  <listitem>
    <para>
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<bridgehead id="gpl-3-termination" renderas="sect1">

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<bridgehead id="AcceptanceNotRequired" renderas="sect1">

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<bridgehead id="InterpretationSecs1516" renderas="sect1">

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</para>

<screen>

<replaceable>one line to give the program’s name and a brief idea of what it does.</replaceable>

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<para>

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</para>

<para>

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</para>

<screen>

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</screen>

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</para>

</appendix>

<appendix id="appendix.gfdl-1.2">

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<bridgehead id="fdl-1-preamble" renderas="sect1">

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</bridgehead>

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Version 3.1, 31 March 2009

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@page
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```
/* gnu.classpath.tools.taglets.CopyrightTaglet
   Copyright (C) 2001 Free Software Foundation, Inc.
```

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```
package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }
}
```

```

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }

        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
                }
            }
        }
    }
}

```

```
    }  
    result.append("</dl>");  
    return result.toString();  
  }  
  else {  
    return null;  
  }  
}  
}  
}  
}  
/* Permission.java -- The superclass for all permission objects  
   Copyright (C) 1998, 2001, 2002, 2005 Free Software Foundation, Inc.
```

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```
package java.security;
```

```

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**

```



```

* Create an instance with the specified name.
*
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the Guard interface for this class.
* It calls the checkPermission method in
* SecurityManager with this Permission as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
*
* @param obj the Object being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
* This method tests whether this Permission implies that the
* specified Permission is also granted.
*
* @param perm the Permission to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use implies, rather
* than equals, when making access control decisions.
*
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this Permission. It
* must satisfy the contract of Object.hashCode: it must be

```

```

* the same for all objects that equals considers to be the same.
*
* @return a hash value
*/
public abstract int hashCode();

/**
 * Get the name of this Permission.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this Permission
 * as a String. The string should be in canonical order, for
 * example, both new FilePermission(f, "write,read") and
 * new FilePermission(f, "read,write") have the action list
 * "read,write".
 *
 * @return the action list for this Permission
 */
public abstract String getActions();

/**
 * This method returns an empty PermissionCollection object
 * that can store permissions of this type, or null if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * implies.
 *
 * @return a new PermissionCollection
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this
 * Permission object. This is in the format:
 * '( + getClass().getName() + ' + getName() + ' + getActions
 * + ').
 *
 * @return this object as a String

```

```

*/
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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```

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```
package java.security.acl;
```

```
/**
```

```
* This interface provides information about a permission that can be  
* granted. Note that this is not the same as the class  
* java.security.Permission.
```

```
*
```

```
* @version 0.0
```

```
*
```

```
* @author Aaron M. Renn (arenn@urbanophile.com)
```

```
*/
```

```
public interface Permission
```

```
{
```

```
/**
```

```
* This method tests whether or not a specified Permission  
* (passed as an Object) is the same as this permission.
```

```
*
```

```
* @param perm The permission to check for equality
```

```
*
```

```
* @return true if the specified permission is the same as this one, false otherwise
```

```
*/
```

```
boolean equals (Object perm);
```

```
/**
```

```
* This method returns this Permission as a String.
```

```
*
```

```
* @return A String representing this permission.
```

```
*/
```

```
String toString();
```

```
}
```

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Directory native/fdlibm

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.186 libICE 1.0.6 :1.e16

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```

1.187 libicu 4.2.1 :12.el6

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```

## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

```



```

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION)_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION)_MAJOR
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

```

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1.188 libIDL 0.8.13 :2.1.e16

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

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END OF TERMS AND CONDITIONS

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1.189 libidn 1.18 :2.el6

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Version 3, 29 June 2007

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The Corresponding Source need not include anything that users

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6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
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IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.iijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics)

omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from <http://www.ecma-international.org/publications/techreports/E-TR-098.htm>. A PostScript version of the JFIF document is available at <http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived as
<http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible
"zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>
and other news.answers archive sites, including the official news.answers
archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.
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FILE FORMAT WARS

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The ISO JPEG standards committee actually promotes different formats like
"JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based
JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)

TO DO

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Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.192 libnih 1.0.1 :7.e16

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```
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1.194 liboil 0.3.16.1

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1.196 libpng 1.2.49 :2.el6_7

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.201 libSM 1.2.1 :2.e16

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1.203 libss-1.41.12-23.el6 1.41.12-23.el6

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23-June-2007

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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- */

1.205 libstdc++-4.4.7-18.el6 4.4.7-18.el6

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Version 2.1, February 1999

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```

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```

```
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License along with this library; if not, write to the Free Software  
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```

Also add information on how to contact you by electronic and paper mail.

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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

```
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
   Copyright (C) 1988, 1996, 2000, 2002, 2007, 2008
   Free Software Foundation, Inc.
```

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```
/* Use the Sequent Symmetry assembler syntax. */
```

```
/* Define the syntax of pseudo-ops, labels and comments. */
```

```
/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
```

```
#define LPREFIX "L"
```

```
/* Assembler pseudos to introduce constants of various size. */
```

```
#define ASM_SHORT "\t.word\t"
```

```
#define ASM_LONG "\t.long\t"
```

```
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
```

```
/* This was suggested, but it shouldn't be right for DBX output. -- RMS
```

```
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
```

```
/* Define the syntax of labels and symbol definitions/declarations. */
```

```

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

```

```
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU GENERAL PUBLIC LICENSE
@center Version 2, June 1991
```

```
@c This file is intended to be included in another file.
```

```
@display
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```
@end display
```

```
@unnumberedsec Preamble
```

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@end iftex

@ifnottex

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@end ifnottex

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@page

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@end smallexample

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when it starts in an interactive mode:

```
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Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

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```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2007 Free Software Foundation, Inc.
```

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```
@c man end
@end ignore
```

@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007

@c This file is intended to be included in another file.

@display
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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@item

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@item

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@item

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@item

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```
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Copyright (C) @var{year} @var{name of author}
```

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

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```
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

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@c man end

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
```

```
<head>
```

```
<meta name="generator" content=
```

```
"HTML Tidy for Linux/x86 (vers 12 April 2005), see www.w3.org" />
```

```
<title>What, me worry?</title>
```

```
<meta http-equiv="Content-Type" content=
```

```
"text/html; charset=us-ascii" />
```

```
</head>
```

```
<body>
```

```
<div id="page">
```

```
<h2>Disclaimer and Copyright</h2>
```

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```
</div>
</body>
</html>
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL Stylesheets V1.74.0"
/><meta name="keywords" content=" ; ISO C++ ; , ; library ; " /><link rel="home"
href=" ../spine.html" title="The GNU C++ Library Documentation" /><link rel="up" href="status.html"
title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
summary="Navigation header"><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%"
align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%"
align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
href="bugs.html">Next</a></td></tr></table><hr /></div><div class="sect1" lang="en" xml:lang="en"><div
class="titlepage"><div><div><h2 class="title" style="clear: both"><a
id="manual.intro.status.license"></a>License</h2></div></div></div><p>
There are two licenses affecting GNU libstdc++: one for the code,
and one for the documentation.
</p><p>
There is a license section in the FAQ regarding common <a class="link" href=" ../faq.html#faq.license"
title="License">questions</a>. If you have more
questions, ask the FSF or the <a class="ulink" href="http://gcc.gnu.org/lists.html" target="_top">gcc mailing
list</a>.
</p><div class="sect2" lang="en" xml:lang="en"><div class="titlepage"><div><div><h3 class="title"><a
id="manual.intro.status.license.gpl"></a>The Code: GPL</h3></div></div></div><p>
The source code is distributed under the <a class="link" href="appendix_gpl.html" title="AppendixD. GNU
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with the addition under section 7 of an exception described in
the <span class="quote">GCC Runtime Library Exception, version 3.1</span>
as follows (or see the file COPYING.RUNTIME):
</p><div class="literallayout"><p><br />
GCCRUNTIMELIBRARYEXCEPTION<br />
```


Version 3.1, 31 March 2009

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead id="Protecting" renderas="sect1">

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

</para>

<bridgehead id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

</para>

<bridgehead id="ConveyingModified" renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

The work must carry prominent notices stating that you modified it, and giving a relevant date.

</para>

</listitem>

<listitem>

<para>

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to “keep intact all notices”.

</para>

</listitem>

<listitem>

<para>

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

</para>

</listitem>

<listitem>

<para>

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

</para>

</listitem>

</orderedlist>

<para>

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation’s users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

</para>

<bridgehead id="ConveyingNonSource" renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

</para>

</listitem>

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

</para>

</listitem>

<listitem>

<para>

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

</para>

</listitem>

<listitem>

<para>

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on

a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

</para>

</listitem>

<listitem>

<para>

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

</para>

</listitem>

</orderedlist>

<para>

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

</para>

<para>

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of

a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in <acronym>ROM</acronym>).

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

</para>

<bridgehead id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

“Additional permissions” are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

</para>

<para>

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

</para>

<para>

Notwithstanding any other provision of this License, for material you add

to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

</para>

<orderedlist numeration="loweralpha">

<listitem>

<para>

Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

</para>

</listitem>

<listitem>

<para>

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

</para>

</listitem>

<listitem>

<para>

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

</para>

</listitem>

<listitem>

<para>

Limiting the use for publicity purposes of names of licensors or authors of the material; or

</para>

</listitem>

<listitem>

<para>

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

</para>

</listitem>

<listitem>

<para>

Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

</para>

</listitem>

</orderedlist>

<para>

All other non-permissive additional terms are considered “further

restrictions” within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

</para>

<para>

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

</para>

<para>

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

</para>

<bridgehead id="gpl-3-termination" renderas="sect1">

8. Termination.

</bridgehead>

<para>

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

</para>

<para>

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

</para>

<para>

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

</para>

<para>

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, you do not qualify to receive new licenses for the same material under section 10.

</para>

<bridgehead id="AcceptanceNotRequired" renderas="sect1">

9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

</para>

<bridgehead id="AutomaticDownstream" renderas="sect1">

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

</para>

<para>

An “entity transaction” is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party’s predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

</para>

<para>

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

</para>

<bridgehead id="Patents" renderas="sect1">

11. Patents.

</bridgehead>

<para>

A “contributor” is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor’s “contributor version”.

</para>

<para>

A contributor’s “essential patent claims” are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, “control” includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

</para>

<para>

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor’s essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

</para>

<para>

In the following three paragraphs, a “patent license” is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To “grant” such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

</para>

<para>

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. “Knowingly relying” means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient’s use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

</para>

<para>

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and

grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

</para>

<para>

A patent license is “discriminatory” if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

</para>

<para>

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

</para>

<bridgehead id="NoSurrender" renderas="sect1">

12. No Surrender of Others’ Freedom.

</bridgehead>

<para>

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

</para>

<bridgehead id="UsedWithAGPL" renderas="sect1">

13. Use with the <acronym>GNU</acronym> Affero General Public License.

</bridgehead>

<para>

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the <acronym>GNU</acronym> Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special

requirements of the <acronym>GNU</acronym> Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

</para>

<bridgehead id="RevisedVersions" renderas="sect1">

14. Revised Versions of this License.

</bridgehead>

<para>

The Free Software Foundation may publish revised and/or new versions of the <acronym>GNU</acronym> General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

</para>

<para>

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the <acronym>GNU</acronym> General Public License “or any later version” applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the <acronym>GNU</acronym> General Public License, you may choose any version ever published by the Free Software Foundation.

</para>

<para>

If the Program specifies that a proxy can decide which future versions of the <acronym>GNU</acronym> General Public License can be used, that proxy’s public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

</para>

<para>

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

</para>

<bridgehead id="WarrantyDisclaimer" renderas="sect1">

15. Disclaimer of Warranty.

</bridgehead>

<para>

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

</para>

<bridgehead id="LiabilityLimitation" renderas="sect1">

16. Limitation of Liability.

</bridgehead>

<para>

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</para>

<bridgehead id="InterpretationSecs1516" renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

</para>

<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

<bridgehead id="HowToApply" renderas="sect1">

How to Apply These Terms to Your New Programs

</bridgehead>

<para>

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</para>

<para>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the “copyright” line and a pointer to where the full notice is found.

</para>

<screen>

<replaceable>one line to give the program’s name and a brief idea of what it does.</replaceable>
Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

This program is free software: you can redistribute it and/or modify it under the terms of the <acronym>GNU</acronym> General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
<acronym>GNU</acronym> General Public License for more details.

You should have received a copy of the <acronym>GNU</acronym> General Public License
along with this program. If not, see <ulink
url="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</ulink>.

</screen>

<para>

Also add information on how to contact you by electronic and paper mail.

</para>

<para>

If the program does terminal interaction, make it output a short notice like
this when it starts in an interactive mode:

</para>

<screen>

<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of
author</replaceable>

This program comes with ABSOLUTELY NO WARRANTY; for details type ‘<literal>show
w</literal>’.

This is free software, and you are welcome to redistribute it
under certain conditions; type ‘<literal>show c</literal>’ for details.

</screen>

<para>

The hypothetical commands ‘<literal>show w</literal>’ and
‘<literal>show c</literal>’ should show the appropriate parts of
the General Public License. Of course, your program’s commands might be
different; for a GUI interface, you would use an “about box”.

</para>

<para>

You should also get your employer (if you work as a programmer) or school,
if any, to sign a “copyright disclaimer” for the program, if
necessary. For more information on this, and how to apply and follow the
<acronym>GNU</acronym> <acronym>GPL</acronym>, see
<ulink url="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</ulink>.

</para>

<para>

The <acronym>GNU</acronym> General Public License does not permit
incorporating your program into proprietary programs. If your program is a
subroutine library, you may consider it more useful to permit linking
proprietary applications with the library. If this is what you want to do,
use the <acronym>GNU</acronym> Lesser General Public License instead of this
License. But first, please read <ulink

url="http://www.gnu.org/philosophy/why-not-lgpl.html">http://www.gnu.org/philosophy/why-not-

lgpl.html</ulink>.

</para>

</appendix>

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

Copyright @copyright{ } 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street - Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

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@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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and the section as a whole is intended to apply in other circumstances.

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@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@smallexample

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

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Version 2.1, February 1999

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know

that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating

system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work

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* m4/ax_func_which_gethostbyname_r.m4

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```
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```

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```
package gnu.classpath.tools.taglets;
```

```
import java.util.Map;
```

```
import com.sun.tools.doclets.Taglet;
```

```
import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }
}
```

```

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }

        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
                }
            }
            result.append("</dl>");
            return result.toString();
        }
        else {
            return null;
        }
    }
}

```

/* Permission.java -- The superclass for all permission objects

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```
package java.security;
```

```
import gnu.java.lang.CPStringBuilder;
```

```
import java.io.Serializable;
```

```
/**
```

```
* This class is the abstract superclass of all classes that implement  
* the concept of a permission. A permission consists of a permission name  
* and optionally a list of actions that relate to the permission. The  
* actual meaning of the name of the permission is defined only in the  
* context of a subclass. It may name a resource to which access permissions  
* are granted (for example, the name of a file) or it might represent  
* something else entirely. Similarly, the action list only has meaning  
* within the context of a subclass. Some permission names may have no  
* actions associated with them. That is, you either have the permission  
* or you don't.
```

```
*
```

```
* <p>The most important method in this class is <code>implies</code>. This  
* checks whether if one has this permission, then the specified  
* permission is also implied. As a conceptual example, consider the  
* permissions "Read All Files" and "Read File foo". The permission  
* "Read All Files" implies that the caller has permission to read the  
* file foo.
```

```
*
```

```
* <p><code>Permission</code>'s must be immutable - do not change their
```

```

* state after creation.
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/
public abstract class Permission implements Guard, Serializable
{
/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the Guard interface for this class.
 * It calls the checkPermission method in
 * SecurityManager with this Permission as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the Object being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)

```

```

    sm.checkPermission(this);
}

/**
 * This method tests whether this Permission implies that the
 * specified Permission is also granted.
 *
 * @param perm the Permission to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use implies, rather
 * than equals, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this Permission. It
 * must satisfy the contract of Object.hashCode: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this Permission.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this Permission
 * as a String. The string should be in canonical order, for
 * example, both new FilePermission(f, "write,read") and
 * new FilePermission(f, "read,write") have the action list
 * "read,write".
 *
 * @return the action list for this Permission
 */

```

```

public abstract String getActions();

/**
 * This method returns an empty PermissionCollection object
 * that can store permissions of this type, or null if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * implies.
 *
 * @return a new PermissionCollection
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this
 * Permission object. This is in the format:
 * '(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'.
 *
 * @return this object as a String
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals(""))
        {
            string = string.append(' ');
            string = string.append(getActions());
        }

    string = string.append(')');
    return string.toString();
}
} // class Permission
/* Permission.java -- Information about an ACL permission
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```

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```
package java.security.acl;
```

```
/**
```

```
* This interface provides information about a permission that can be  
* granted. Note that this is not the same as the class  
* java.security.Permission.
```

```
*
```

```
* @version 0.0
```

```
*
```

```
* @author Aaron M. Renn (arenn@urbanophile.com)
```

```
*/
```

```
public interface Permission
```

```
{
```

```
/**
```

```
* This method tests whether or not a specified Permission
```

```
* (passed as an Object) is the same as this permission.
```

```

*
* @param perm The permission to check for equality
*
* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
*/
boolean equals (Object perm);

/**
* This method returns this <code>Permission</code> as a <code>String</code>.
*
* @return A <code>String</code> representing this permission.
*/
String toString();
}

```

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Version 3, 29 June 2007

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1.207 libtiff 3.9.4 :21.el6_8

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1.209 libudev 147 :2.73.e16_8.2

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ltmmain.sh - Provide generalized library-building support services.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.212 libutempter 1.1.5 :4.1.e16

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.218 libXau 1.0.6 :Jul 19 2010 Julien Cristau

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1.219 libxcb 1.12 :4.el6

1.220 libXext 1.3.3 :1.el6

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1.221 libXfont 1.5.1 :2.el6

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written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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1.222 libXi 1.7.8 :1.e16

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1.223 libxml2 2.7.6 :21.el6_8.1

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1.224 libxml2 2.9.3

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1.225 libXrender 0.9.7 :Jan 2 2012 Emanuele Giaquinta

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1.226 libXtst 1.2.3 :1.e16

1.227 Iksctp-tools 1.0.10 :7.e16

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<one line to give the program's name and a brief idea of what it does.>

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```
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```

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

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1.233 Izo 2.03 :3.1.el6_5.1

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<signature of Ty Coon>, 1 April 1989

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```
#!/bin/sh
```

```
# py-compile - Compile a Python program
```

```
scriptversion=2005-05-14.22
```

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Version 3, 29 June 2007

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 2, June 1991

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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- b) Accompany it with a written offer, valid for at least three

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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- javaee_web_services_client_1_2.xsd
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JAIN(TM) Session Initiation Protocol ("SIP") Specification

("Specification")

Version: 1.0

Status: FCS

Specification Lead: Dynamicsoft ("Specification Lead")

Release: May 25, 2001

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1.244 mongodb 2.6.12 :1

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Written by: Philip Hazel
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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

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University of Cambridge Computing Service,
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```

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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```

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```
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```

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```

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
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```

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Also add information on how to contact you by electronic and paper mail.

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.252 newt 0.52.11 :3.el6

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may

distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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That's all there is to it!

1.253 newt-python 0.52.11 :3.e16

1.253.1 Available under license :

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1.254 node-connect 2.8.4

1.254.1 Available under license :

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1.255 node-formidable 1.0.14

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1.256 node-mime 1.2.9

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1.257 node-mkdirp 0.3.5

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1.258 nodejs 0.10.48 :3.el6

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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This package is a JavaScript porting of `wcwidth()` implementation

[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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// Original can be found at:

// <https://bitbucket.org/lindenlab/lld>

// Modifications by Joshua Bell inexorable@lindenlab.com

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// * Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.8, April 28th, 2013
```

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spdx-license-ids

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Use as a JavaScript Library

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Installation

Package managers

[npm](https://www.npmjs.com/)

```
```sh
npm install spdx-license-ids
```
```

[bower](http://bower.io/)

```
```sh
bower install spdx-license-ids
```
```

[Duo](http://duojs.org/)

```
```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```
```

Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

API

spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```
```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ...]
```
```

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""

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
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```

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*/

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- npm is a package manager program located at deps/npm.

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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This package is a JavaScript porting of `wcwidth()` implementation [by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell inexorabletash@gmail.com

// <https://github.com/inexorabletash/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// * Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript
```

```

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
...

```

The function will return a warning and suggestion for nearly-correct license identifiers:

```

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      "'UNLICENSED', or ' +
      "'SEE LICENSE IN <filename>'",
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
...

```

SPDX expressions are valid, too ...

```

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0 OR BSD-2-Clause)'),
 validSPDXExpression
);
...

```

... except if they contain `LicenseRef`:

```

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,

```

```
warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
]
};
```

```
assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
```

```
assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```
```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);
```

```
assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```
```

If there aren't any licensing terms, use `UNLICENSED`:

```
```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
```

```

    unlicensed: true
  };
  assert.deepEqual(valid('UNLICENSED'), unlicensed);
  assert.deepEqual(valid('UNLICENCED'), unlicensed);
  ...

  ````javascript
 var parse = require('spdx-expression-parse')
 var assert = require('assert')

 var firstAST = {
 left: { license: 'LGPL-2.1' },
 conjunction: 'or',
 right: {
 left: { license: 'BSD-3-Clause' },
 conjunction: 'and',
 right: { license: 'MIT' } } }

 assert.deepEqual(
 parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'),
 firstAST)

 var secondAST = {
 left: { license: 'MIT' },
 conjunction: 'and',
 right: {
 left: {
 license: 'LGPL-2.1',
 plus: true },
 conjunction: 'and',
 right: { license: 'BSD-3-Clause' } } }

 assert.deepEqual(
 parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause))'),
 secondAST)

 // We handle all the bare SPDX license and exception ids as well.
 require('spdx-license-ids').forEach(function(id) {
 assert.deepEqual(
 parse(id),
 { license: id })
 require('spdx-exceptions').forEach(function(e) {
 assert.deepEqual(
 parse(id + ' WITH ' + e),
 { license: id, exception: e }) }) })
 ...

```

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The package exports an array of strings.

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```
```javascript
```

```
var correct = require('spdx-correct');
```

```
var assert = require('assert');
```

```
assert.equal(correct('mit'), 'MIT')
```

```
assert.equal(correct('Apache 2'), 'Apache-2.0')
```

```
assert(correct('No idea what license') === null)
```

```
```
```

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# spdx-license-ids

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[\*\*Download JSON\*\*](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

## Use as a JavaScript Library

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### Installation

#### #### Package managers

##### ##### [npm](https://www.npmjs.com/)

```
```sh
npm install spdx-license-ids
```
```

##### ##### [bower](http://bower.io/)

```
```sh
bower install spdx-license-ids
```
```

##### ##### [Duo](http://duojs.org/)

```
```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```
```

#### #### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

#### ### API

##### ##### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```
```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```
```

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2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
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34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo

46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
  48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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  51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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```

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36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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48. [mailto:% 20dirce@zk3.dec.com](mailto:20dirce@zk3.dec.com)
49. [mailto:% 20wsanchez@apple.com](mailto:20wsanchez@apple.com)
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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## 1.268 numactl 2.0.9 :2.el6

### 1.268.1 Available under license :

```
/* Copyright (C) 2003,2004 Andi Kleen, SuSE Labs.
```

```
Test/demo program for libnuma. This is also a more or less useful benchmark of the NUMA characteristics of your machine. It benchmarks most possible NUMA policy memory configurations with various benchmarks.
```

```
Compile standalone with cc -O2 numademo.c -o numademo -lnuma -lm
```

```
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```

```
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```

```
You should find a copy of v2 of the GNU General Public License somewhere on your Linux system; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA */
```

```
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```

```
Allocate memory with policy for testing.
```

```
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```

```
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```



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All calls are undefined when numa\_available returns an error. \*/  
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#endif

```

```

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */
/* $Id: BSD-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)

```

```
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

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*****/

```

-----

```

$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $
* Foremost, OpenSSH from which this project is derived.
* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
$OpenBSD: bsd.regress.mk,v 1.9 2002/02/17 01:10:15 marc Exp $
No man pages for regression tests.
NOMAN=

No installation.
install:

If REGRESSTARGETS is defined and PROG is not defined, set NOPROG
.if defined(REGRESSTARGETS) && !defined(PROG)
NOPROG=
.endif

.include <bsd.prog.mk>

.MAIN: all
all: regress

XXX - Need full path to REGRESSLOG, otherwise there will be much pain.

REGRESSLOG?=/dev/null
REGRESSNAME=${.CURDIR:S/${BDSRCDIR}\regress///}

.if defined(PROG) && !empty(PROG)
run-regress-${PROG}: ${PROG}
./${PROG}
.endif

.if !defined(REGRESSTARGETS)
REGRESSTARGETS=run-regress-${PROG}
. if defined(REGRESSSKIP)
REGRESSSKIPTARGETS=run-regress-${PROG}
. endif
.endif

REGRESSSKIPSLow?=no

```

```

#.if (${REGRESSSKIPLOW:L} == "yes") && defined(REGRESSSLOWTARGETS)

.if (${REGRESSSKIPLOW} == "yes") && defined(REGRESSSLOWTARGETS)
REGRESSKIPTARGETS+=${REGRESSSLOWTARGETS}
.endif

.if defined(REGRESSROOTTARGETS)
ROOTUSER!=id -g
SUDO?=-
. if (${ROOTUSER} != 0) && empty(SUDO)
REGRESSKIPTARGETS+=${REGRESSROOTTARGETS}
. endif
.endif

REGRESSKIPTARGETS?=-

regress:
.for RT in ${REGRESSTARGETS}
. if ${REGRESSKIPTARGETS:M${RT}}
@echo -n "SKIP " >> ${REGRESSLOG}
. else
XXX - we need a better method to see if a test fails due to timeout or just
normal failure.
. if !defined(REGRESSMAXTIME)
@if cd ${.CURDIR} && ${MAKE} ${RT}; then \
echo -n "SUCCESS " >> ${REGRESSLOG} ; \
else \
echo -n "FAIL " >> ${REGRESSLOG} ; \
echo FAILED ; \
fi
. else
@if cd ${.CURDIR} && (ulimit -t ${REGRESSMAXTIME} ; ${MAKE} ${RT}); then \
echo -n "SUCCESS " >> ${REGRESSLOG} ; \
else \
echo -n "FAIL (possible timeout) " >> ${REGRESSLOG} ; \
echo FAILED ; \
fi
. endif
. endif
@echo ${REGRESSNAME}/${RT:S/^run-regress-//} >> ${REGRESSLOG}
.endfor

.PHONY: regress
--- openssl-5.3p1/sftp-server.8 2015-02-10 10:08:09.611849984 +0100
+++ openssl-5.3p1/sftp-server.8.perms 2015-02-10 10:08:52.204120509 +0100
@@ -33,6 +33,7 @@
.Op Fl f Ar log_facility

```

```

.Op Fl l Ar log_level
.Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
.Sh DESCRIPTION
.Nm
is a program that speaks the server side of SFTP protocol
@@ -77,6 +78,10 @@ Sets an explicit
.Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
For logging to work,
--- openssl-5.3p1/sftp-server.c 2015-02-10 10:08:09.611849984 +0100
+++ openssl-5.3p1/sftp-server.c.perms 2015-02-10 10:39:00.855453028 +0100
@@ -70,6 +70,10 @@ Buffer oqueue;
/* Version of client */
int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* portable attributes, etc. */

typedef struct Stat Stat;
@@ -547,6 +547,7 @@ process_open(void)
Attrib *a;
char *name;
int handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+ mode_t old_umask;

id = get_int();
name = get_string(NULL);
@@ -551,9 +555,15 @@ process_open(void)
a = get_attrib();
flags = flags_from_portable(pflags);
mode = (a->flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a->perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ old_umask = umask(0); /* so umask does not interfere */
+ }
logit("open \"%s\" flags %s mode 0%o",
name, string_from_portable(pflags), mode);

```

```

fd = open(name, flags, mode);
+ if (permforce == 1)
+ (void) umask(old_umask); /* restore umask to something sane */
if (fd < 0) {
 status = errno_to_portable(errno);
} else {
@@ -1322,8 +1330,8 @@ sftp_server_usage(void)
extern char *__progrname;

fprintf(stderr,
- "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n",
- __progrname);
+ "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n"
+ " [-m force_file_perms]\n", __progrname);
exit(1);
}

@@ -1343,7 +1351,7 @@ sftp_server_main(int argc, char **argv,
__progrname = ssh_get_progrname(argv[0]);
log_init(__progrname, log_level, log_facility, log_stderr);

- while (!skipargs && (ch = getopt(argc, argv, "f:l:u:che")) != -1) {
+ while (!skipargs && (ch = getopt(argc, argv, "f:l:u:m:che")) != -1) {
 switch (ch) {
 case 'c':
 /*
@@ -1373,6 +1381,15 @@ sftp_server_main(int argc, char **argv,
 fatal("Invalid umask \"%s\"", optarg);
 (void)umask((mode_t)mask);
 break;
+ case 'm':
+ /* Force permissions on file received via sftp */
+ permforce = 1;
+ permforcemode = strtoul(optarg, &cp, 8);
+ if (permforcemode < 0 || permforcemode > 0777 ||
+ *cp != '\0' || (permforcemode == 0 &&
+ errno != 0))
+ fatal("Invalid file mode \"%s\"", optarg);
+ break;
 case 'h':
 default:
 sftp_server_usage();

```

## 1.272 openssh-clients 5.3p1 :123.el6\_9

## 1.272.1 Available under license :

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */

```

```

#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: BSD-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED

```

```

#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
This file is part of the OpenSSH software.

```

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[Tatu continues]

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* Ariel Futoransky <futo@core-sdi.com>
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```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*****/

```

-----

```

$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $
* Foremost, OpenSSH from which this project is derived.
* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
$OpenBSD: bsd.regress.mk,v 1.9 2002/02/17 01:10:15 marc Exp $
No man pages for regression tests.
NOMAN=

No installation.
install:

If REGRESSTARGETS is defined and PROG is not defined, set NOPROG
.if defined(REGRESSTARGETS) && !defined(PROG)
NOPROG=
.endif

.include <bsd.prog.mk>

.MAIN: all
all: regress

XXX - Need full path to REGRESSLOG, otherwise there will be much pain.

REGRESSLOG?=/dev/null
REGRESSNAME=${.CURDIR:S/${BSDSRCDIR}\regress\}

.if defined(PROG) && !empty(PROG)
run-regress-${PROG}: ${PROG}
./${PROG}

```

```

.endif

.if !defined(REGRESSTARGETS)
REGRESSTARGETS=run-regress-#{PROG}
. if defined(REGRESSSKIP)
REGRESSSKIPTARGETS=run-regress-#{PROG}
. endif
.endif

REGRESSSKIPLOW?=no

#.if (#{REGRESSSKIPLOW:L} == "yes") && defined(REGRESSSLOWTARGETS)

.if (#{REGRESSSKIPLOW} == "yes") && defined(REGRESSSLOWTARGETS)
REGRESSSKIPTARGETS+=#{REGRESSSLOWTARGETS}
.endif

.if defined(REGRESSROOTTARGETS)
ROOTUSER!=id -g
SUDO?=
. if (#{ROOTUSER} != 0) && empty(SUDO)
REGRESSSKIPTARGETS+=#{REGRESSROOTTARGETS}
. endif
.endif

REGRESSSKIPTARGETS?=

regress:
.for RT in #{REGRESSTARGETS}
. if #{REGRESSSKIPTARGETS:M#{RT}}
@echo -n "SKIP " >> #{REGRESSLOG}
. else
XXX - we need a better method to see if a test fails due to timeout or just
normal failure.
. if !defined(REGRESSMAXTIME)
@if cd #{.CURDIR} && #{MAKE} #{RT}; then \
echo -n "SUCCESS " >> #{REGRESSLOG} ; \
else \
echo -n "FAIL " >> #{REGRESSLOG} ; \
echo FAILED ; \
fi
. else
@if cd #{.CURDIR} && (ulimit -t #{REGRESSMAXTIME} ; #{MAKE} #{RT}); then \
echo -n "SUCCESS " >> #{REGRESSLOG} ; \
else \
echo -n "FAIL (possible timeout) " >> #{REGRESSLOG} ; \
echo FAILED ; \
fi

```

```
. endif
. endif
@echo ${REGRESSNAME}/${RT:S/^run-regress-//} >> ${REGRESSLOG}
.endfor
```

```
.PHONY: regress
```

```
--- openssl-5.3p1/sftp-server.8 2015-02-10 10:08:09.611849984 +0100
+++ openssl-5.3p1/sftp-server.8.perms 2015-02-10 10:08:52.204120509 +0100
```

```
@@ -33,6 +33,7 @@
```

```
.Op Fl f Ar log_facility
```

```
.Op Fl l Ar log_level
```

```
.Op Fl u Ar umask
```

```
+Op Fl m Ar force_file_perms
```

```
.Sh DESCRIPTION
```

```
.Nm
```

is a program that speaks the server side of SFTP protocol

```
@@ -77,6 +78,10 @@ Sets an explicit
```

```
.Xr umask 2
```

to be applied to newly-created files and directories, instead of the user's default mask.

```
+It Fl m Ar force_file_perms
```

+Sets explicit file permissions to be applied to newly-created files instead

+of the default or client requested mode. Numeric values include:

+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.

```
.El
```

```
.Pp
```

For logging to work,

```
--- openssl-5.3p1/sftp-server.c 2015-02-10 10:08:09.611849984 +0100
```

```
+++ openssl-5.3p1/sftp-server.c.perms 2015-02-10 10:39:00.855453028 +0100
```

```
@@ -70,6 +70,10 @@ Buffer oqueue;
```

```
/* Version of client */
```

```
int version;
```

```
+/* Force file permissions */
```

```
+int permforce = 0;
```

```
+long permforcemode;
```

```
+
```

```
/* portable attributes, etc. */
```

```
typedef struct Stat Stat;
```

```
@@ -547,6 +547,7 @@ process_open(void)
```

```
Attrib *a;
```

```
char *name;
```

```
int handle, fd, flags, mode, status = SSH2_FX_FAILURE;
```

```
+ mode_t old_umask;
```

```
id = get_int();
```

```
name = get_string(NULL);
```

```

@@ -551,9 +555,15 @@ process_open(void)
a = get_attrib();
flags = flags_from_portable(pflags);
mode = (a->flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a->perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ old_umask = umask(0); /* so umask does not interfere */
+ }
logit("open \"%s\" flags %s mode 0%o",
name, string_from_portable(pflags), mode);
fd = open(name, flags, mode);
+ if (permforce == 1)
+ (void) umask(old_umask); /* restore umask to something sane */
if (fd < 0) {
status = errno_to_portable(errno);
} else {
@@ -1322,8 +1330,8 @@ sftp_server_usage(void)
extern char *__progname;

fprintf(stderr,
- "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n",
- __progname);
+ "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n"
+ " [-m force_file_perms]\n", __progname);
exit(1);
}

@@ -1343,7 +1351,7 @@ sftp_server_main(int argc, char **argv,
__progname = ssh_get_progname(argv[0]);
log_init(__progname, log_level, log_facility, log_stderr);

- while (!skipargs && (ch = getopt(argc, argv, "f:l:u:che")) != -1) {
+ while (!skipargs && (ch = getopt(argc, argv, "f:l:u:m:che")) != -1) {
switch (ch) {
case 'c':
/*
@@ -1373,6 +1381,15 @@ sftp_server_main(int argc, char **argv,
fatal("Invalid umask \"%s\"", optarg);
(void)umask((mode_t)mask);
break;
+ case 'm':
+ /* Force permissions on file received via sftp */
+ permforce = 1;
+ permforcemode = strtol(optarg, &cp, 8);
+ if (permforcemode < 0 || permforcemode > 0777 ||
+ *cp != '\0' || (permforcemode == 0 &&
+ errno != 0))
+ fatal("Invalid file mode \"%s\"", optarg);

```

```

+ break;
case 'h':
default:
 sftp_server_usage();

```

## 1.273 openssh-server 5.3p1 :123.el6\_9

### 1.273.1 Available under license :

```

--- openssh-5.3p1/sftp-server.8 2015-02-10 10:08:09.611849984 +0100
+++ openssh-5.3p1/sftp-server.8.perms 2015-02-10 10:08:52.204120509 +0100
@@ -33,6 +33,7 @@
.Op Fl f Ar log_facility
.Op Fl l Ar log_level
.Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
.Sh DESCRIPTION
.Nm
is a program that speaks the server side of SFTP protocol
@@ -77,6 +78,10 @@ Sets an explicit
.Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
For logging to work,
--- openssh-5.3p1/sftp-server.c 2015-02-10 10:08:09.611849984 +0100
+++ openssh-5.3p1/sftp-server.c.perms 2015-02-10 10:39:00.855453028 +0100
@@ -70,6 +70,10 @@ Buffer oqueue;
/* Version of client */
int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/* portable attributes, etc. */

typedef struct Stat Stat;
@@ -547,6 +547,7 @@ process_open(void)
Attrib *a;
char *name;
int handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+ mode_t old_umask;

```

```

id = get_int();
name = get_string(NULL);
@@ -551,9 +555,15 @@ process_open(void)
a = get_attrib();
flags = flags_from_portable(pflags);
mode = (a->flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a->perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ old_umask = umask(0); /* so umask does not interfere */
+ }
logit("open \"%s\" flags %s mode 0%o",
 name, string_from_portable(pflags), mode);
fd = open(name, flags, mode);
+ if (permforce == 1)
+ (void) umask(old_umask); /* restore umask to something sane */
if (fd < 0) {
 status = errno_to_portable(errno);
} else {
@@ -1322,8 +1330,8 @@ sftp_server_usage(void)
extern char *__progrname;

fprintf(stderr,
- "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n",
- __progrname);
+ "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n"
+ " [-m force_file_perms]\n", __progrname);
exit(1);
}

@@ -1343,7 +1351,7 @@ sftp_server_main(int argc, char **argv,
__progrname = ssh_get_progrname(argv[0]);
log_init(__progrname, log_level, log_facility, log_stderr);

- while (!skipargs && (ch = getopt(argc, argv, "f:l:u:che")) != -1) {
+ while (!skipargs && (ch = getopt(argc, argv, "f:l:u:m:che")) != -1) {
 switch (ch) {
 case 'c':
 /*
@@ -1373,6 +1381,15 @@ sftp_server_main(int argc, char **argv,
 fatal("Invalid umask \"%s\"", optarg);
 (void)umask((mode_t)mask);
 break;
+ case 'm':
+ /* Force permissions on file received via sftp */
+ permforce = 1;
+ permforcemode = strtol(optarg, &cp, 8);
+ if (permforcemode < 0 || permforcemode > 0777 ||

```

```
+ *cp != '\0' || (permforcemode == 0 &&
+ errno != 0))
+ fatal("Invalid file mode \"%s\"", optarg);
+ break;
+ case 'h':
+ default:
+ sftp_server_usage();
```

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```
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */
```

```
/*
```

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*
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*/

```

```

/* OPENBSD ORIGINAL: sys/sys/poll.h */

```

```

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

```

```

typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;

```

```

typedef unsigned int nfds_t;

```

```

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

```

```

#define INFTIM (-1) /* not standard */

```

```

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80

```

```

#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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```

$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $
* Foremost, OpenSSH from which this project is derived.
* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
$OpenBSD: bsd.regress.mk,v 1.9 2002/02/17 01:10:15 marc Exp $
No man pages for regression tests.
NOMAN=

No installation.
install:

If REGRESSTARGETS is defined and PROG is not defined, set NOPROG
.if defined(REGRESSTARGETS) && !defined(PROG)
NOPROG=
.endif

.include <bsd.prog.mk>

.MAIN: all
all: regress

XXX - Need full path to REGRESSLOG, otherwise there will be much pain.

```

```

REGRESSLOG?=/dev/null
REGRESSNAME=${.CURDIR:S/${BSDSRCDIR}\regress\}

.if defined(PROG) && !empty(PROG)
run-regress-${PROG}: ${PROG}
. ${PROG}
.endif

.if !defined(REGRESSTARGETS)
REGRESSTARGETS=run-regress-${PROG}
. if defined(REGRESSSKIP)
REGRESSSKIPTARGETS=run-regress-${PROG}
. endif
.endif

REGRESSSKIPSLow?=no

#.if (${REGRESSSKIPSLow:L} == "yes") && defined(REGRESSSLOWTARGETS)

.if (${REGRESSSKIPSLow} == "yes") && defined(REGRESSSLOWTARGETS)
REGRESSSKIPTARGETS+=${REGRESSSLOWTARGETS}
.endif

.if defined(REGRESSROOTTARGETS)
ROOTUSER!=id -g
SUDO?=
. if (${ROOTUSER} != 0) && empty(SUDO)
REGRESSSKIPTARGETS+=${REGRESSROOTTARGETS}
. endif
.endif

REGRESSSKIPTARGETS?=

regress:
.for RT in ${REGRESSTARGETS}
. if ${REGRESSSKIPTARGETS:M${RT}}
@echo -n "SKIP " >> ${REGRESSLOG}
. else
XXX - we need a better method to see if a test fails due to timeout or just
normal failure.
. if !defined(REGRESSMAXTIME)
@if cd ${.CURDIR} && ${MAKE} ${RT}; then \
echo -n "SUCCESS " >> ${REGRESSLOG} ; \
else \
echo -n "FAIL " >> ${REGRESSLOG} ; \
echo FAILED ; \
fi
. else

```

```

@if cd ${CURDIR} && (ulimit -t ${REGRESSMAXTIME} ; ${MAKE} ${RT}); then \
 echo -n "SUCCESS " >> ${REGRESSLOG} ; \
else \
 echo -n "FAIL (possible timeout) " >> ${REGRESSLOG} ; \
 echo FAILED ; \
fi
. endif
. endif
@echo ${REGRESSNAME}/${RT:S/^run-regress-//} >> ${REGRESSLOG}
.endfor

.PHONY: regress

```

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## 1.276 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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## 1.278 ORBit2 2.14.17 :6.e16\_8

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```
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## 1.283 pciutils 3.1.10 :4.el6

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## 1.285 pcre 7.8 :7.e16

### 1.285.1 Available under license :

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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```

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## 1.287 perl-libs 5.10.1 :144.e16

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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```

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```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 1, or (at your option)
any later version.
```

```
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```

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```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

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The End

## 1.291 perl-URI 1.40 :2.e16

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This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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```
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.292 perl-URI 1.40 :2.e16

### 1.292.1 Available under license :

This package contains the URI.pm module with friends. The module implements the URI class. Objects of this class represent Uniform Resource Identifier references as specified in RFC 2396 and updated by RFC 2732.

URI objects can be used to access and manipulate the various components that make up these strings. There are also methods to combine URIs in various ways.

Some tests require an Internet connection to work and are skipped if one is not active.

You need perl5.004 or better to install this package. You should also have the MIME::Base64 module installed. Installation is otherwise as usual:

perl Makefile.PL  
make  
make test  
make install

Questions about how to use this library should be directed to the comp.lang.perl.modules USENET Newsgroup. Bug reports and suggestions for improvements can be sent to the <libwww@perl.org> mailing list.

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```

```
, 1 April 1989
Ty Coon, President of Vice
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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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Ty Coon, President of Vice

That's all there is to it!

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```

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# 1.301 popt 1.13 :7.e16

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# 1.302 postfix 2.6.6 :8.e16

## 1.302.1 Available under license :

Author:

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- Postfix/TLS support was originally developed by Lutz Jaenicke of Brandenburg University of Technology, Cottbus, Germany.

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Included for the use of the fix\_strcasecmp.c module which works around a Solaris problem.

/\*

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## 1.303 procps 3.2.8 :45.e16\_9.1

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## 1.307 pygpgme 0.1 :18.20090824bZR68.e16

### 1.307.1 Available under license :

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Version 2.1, February 1999

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# 1.308 python 2.6.6 :64.el6

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### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
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| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.4.1 | 2.4   | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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# 1.316 python-pycurl 7.19.0 :9.e16

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## 1.318 python-urlgrabber 3.9.1 :11.el6

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## 1.320 querystring 0.6.6

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Version 3, 29 June 2007

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## 1.326 rpm-libs 4.8.0 :47.el6

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## 1.327 rpm-python 4.8.0 :47.el6

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

# 1.328 rsyslog 5.8.10 :10.el6\_6

## 1.328.1 Available under license :

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Version 3, 29 June 2007

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```

```
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```

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```
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```

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# 1.349 system-config-firewall 1.2.27 :7.2.el6\_6

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```
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```

```
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```

```
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```
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```
- "TÄ ohjelmaa levitetÄn siinÄ toivossa, ettÄ se olisi hyÄdyllinen mutta "
- "ilman mitÄn takuuta; edes hiljaista takuuta kaupallisesti hyvÄksyttÄstÄ "
- "laadusta tai soveltuvuudesta tiettyyn tarkoitukseen. Katso GPL- lisenssistÄ "
- "lisÄ yksityiskohtia.\n"
- "\n"
```

```
- "TÄ ohjelman mukana pitÄisi tulla kopio GPL-lisenssistÄ. Jos nÄin ei ole, "
- "katso <http://www.gnu.org/licenses/>."
```

```
+ "You should have received a copy of the GNU General Public License along with this program. If not, see
<http://www.gnu.org/licenses/>."
```

```
+msgstr "TÄ on vapaa ohjelma: tÄ ohjelmaa saa levittÄ edelleen ja muuttaa Free Software
Foundationin julkaiseman GNU General Public Licensen (GPL-lisenssi) version 3 tai (valinnan mukaan)
myÄhemmÄn version ehtojen mukaisesti\n\nTÄ ohjelmaa levitetÄn siinÄ toivossa, ettÄ se olisi
hyÄdyllinen mutta ilman mitÄn takuuta; edes hiljaista takuuta kaupallisesti hyvÄksyttÄstÄ laadusta
tai soveltuvuudesta tiettyyn tarkoitukseen. Katso GPL- lisenssistÄ lisÄ yksityiskohtia.\n\nTÄ ohjelman
mukana pitÄisi tulla kopio GPL-lisenssistÄ. Jos nÄin ei ole, katso <http://www.gnu.org/licenses/>."
```

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Version 3, 29 June 2007

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# 1.352 tar 1.23 :13.el6

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\*/

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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## 1.364 underscore 1.3.3

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## 1.365 unzip 6.0 :5.e16

### 1.365.1 Available under license :

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This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

---

#### FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP License. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available

as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* from Apple Sample Code, but that you've made
* changes."
```

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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

```
* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevens@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* -----
* This source is copyrighted by Christopher Evans (cevens@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthol leonardr@netcom.com)
```

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---

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- \*
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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---

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-----

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-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and

others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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Inspired by and based on:
http://src.chromium.org/viewvc/chrome/trunk/src/tools/bash-completion

Flag completion rule for bash.
To load in your shell, "source path/to/this/file".
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```

```
// This implementation of the DeltaBlue benchmark is derived
// from the Smalltalk implementation by John Maloney and Mario
// Wolczko. Some parts have been translated directly, whereas
// others have been modified more aggressively to make it feel
// more like a JavaScript program.
```

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Arnaud LE HORS    BULL Research FRANCE -- Koala Project

(XPM - X PixMap format version 2 & 3)

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\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

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\*iccf\* \*ICCF\*

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<http://www.vim.org/iccf/>

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=====  
Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both

parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation



Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your

tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

# 1.371 webservices-api 2.1

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Version 3, 29 June 2007

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## 1.374 Xalan-J 2.5.2

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The contributing author(s) would like to thank all those who helped with testing, bug fixes, and patience. This wouldn't have been possible without all of you.

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## 1.376 Xml Compatibility extensions for Jackson 1.9.2

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## 1.377 xorg-x11-drv-ati 7.6.1 :3.el6\_9

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# 1.378 xorg-x11-drv-ati-firmware 7.6.1 :3.el6\_9

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# 1.379 xorg-x11-font-utils 7.2 :11.e16

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## 1.380 xorg-x11-fonts-Type1 7.2 :11.el6

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## 1.381 xorg-x11-fonts\_scripts 7.2 :9.1.el6

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## 1.382 xsdlib 20060319

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## 1.387 yum-plugin-fastestmirror 1.1.30 :40.el6

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# 1.389 zd1211-firmware 1.4 :4.el6

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## 1.390 zlib 1.2.3 :29.el6

### 1.390.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

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```
*/
```

'zlib' general purpose compression library version 1.1.4, March 11th, 2002

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# 1.391 zlib 1.2.8

## 1.391.1 Available under license :

interface of the 'zlib' general purpose compression library  
version 1.2.7, May 2nd, 2012

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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